

TOWSON



Towson University
Towson, Maryland
Undergraduate Catalog
1997-98

Towson University Academic Calendar

See schedule bulletin for registration dates, times and information

Fall Semester 1997

Labor Day (no classes)	September 1 (M)
Classes Begin	September 2 (T)
Schedule Changes Accepted	September 2 (T) - September 9 (T)
Last day to withdraw with grade of "W" from first seven-week PHEC courses	October 3 (F)
Last day to withdraw from full semester courses with grade of "W", or to change grading options	October 17 (F)
Mid-semester	October 17 (F)
Second seven-week PHEC courses begin	October 20 (M)
Last day to withdraw with grade of "W" from second seven-week PHEC courses	October 31 (F)
Thanksgiving Holiday - No Classes	Nov. 27-30 (Thursday-Sunday)
*Note: Classes beginning after 4 p.m. Wednesday, Nov. 26, will not be held.	
Classes resume	December 1 (M)
Last day of classes	December 12 (F)
Reading Day	None (weekend serves as Reading Days)
Final examinations begin	December 13 (Sat)
Final examinations end; last day of semester	Dec. 19 (F)
Commencement	January 4 (Sun) (Times to be determined)

Total Instructional days: 72

M=14 W=15 F=14

T=15 R=14 Sat=13

Spring Semester 1998

Minimester begins	January 2 (F)
Minimester Change of Schedule period	January 2 & 5 (F & M)
Martin Luther King Day - No Classes	January 19 (M)
Minimester ends	January 26 (M)
Spring Classes begin	January 27 (T)
Spring Change of Schedule period	January 27 (T) - February 3 (T)
Last day to withdraw with grade of "W" from first seven-week PHEC courses	February 3 (T)
Last day to withdraw with grade of "W" from full-semester courses, or to change grading options	March 13 (F)
Mid-semester	March 13 (F)
Second seven-week PHEC courses start	March 16 (M)
Spring Break	March 23 (M) - March 29 (Sun)
Classes resume	March 30 (M)
Last day to withdraw from second seven-week PHEC courses	April 3 (F)
Last day of classes	May 13 (W)
Reading Day	May 14 (R)
Final examinations begin	May 15 (F)
Final examinations end; last day of semester	May 22 (F)
Commencement	May 27 (W) 5 p.m. (Tentative time) May 28 (R) 10 a.m. & 3 p.m.

Total Instructional days: 72

M=14 W=15 F=14

T=15 R=14 Sat=14

The purpose of this Catalog is to provide information about the University and existing resources and services and current curriculum, programs, rules, regulations, and policies. Catalog information is thus to be used as an informational guide and practical resource. The University, however, may in its discretion and from time to time, amend the information contained in this Catalog by modification, deletions or additions to it. Accordingly, the Catalog and the information it contains do not constitute a contract.

INCLEMENT WEATHER POLICY

In the event of inclement weather, announcements about schedule changes or cancellations will be broadcast over the following major radio and television stations, WBAL/98 Rock (1090 AM/98 FM), WCAO/WXYV (600AM/103 FM), WLJF (102 FM), WBAL-TV (11), WJZ-TV (13), WMAR-TV (2) in Baltimore, and WTOP (1500 AM/97.1 FM) and WJLA-TV (7) in the Washington, D.C., area.

Towson University is in compliance with federal and state regulations regarding nondiscrimination on the basis of race, color, national origin, religion, sex, marital status, age, political affiliation, veteran status, disability, or other prohibited reason. For further information, contact the TU Office of Fair Practices, 410-830-2361, or S. Guckert, ADA/504 Officer, 410-830-3981. The university does not discriminate on the basis of sexual orientation.

Campus Directory

Academic, Advising	(410) 830-2472
Accounting	(410) 830-2227
Administration and Finance Vice President	(410) 830-2151
ADMISSIONS	(410) 830-2113
African-American Cultural Center	(410) 830-2641
Alumni Relations	(410) 830-2234
Anthropology	(410) 830-2852
Art	(410) 830-2808
Asian Arts Center	(410) 830-2807
Athletics	(410) 830-2759
Auxiliary Services	(410) 830-2530
Biological Sciences	(410) 830-3042
Black Student Union	(410) 830-3277
Burkshire	(410) 324-8100
BURSAR	(410) 830-2100
Career Center	(410) 830-2233
Catering	(410) 830-3480
Center for Study of Campus Violence	(410) 830-2178
Chemistry	(410) 830-3058
Commuter Affairs	(410) 830-3307
Communication Sciences and Disorders	(410) 830-3099
Computer & Information Sciences	(410) 830-2633
Computing Center	(410) 830-3916
Counseling Center	(410) 830-2512
Dance	(410) 830-2760
Dean, College of Business and Economics	(410) 830-3342
Dean, College of Education	(410) 830-2571
Dean, College of Fine Arts	(410) 830-3288
Dean, College of Health Professions	(410) 830-2132
Dean, College of Liberal Arts	(410) 830-2128
Dean, College of Natural and Mathematical Sciences	(410) 830-2121
Dean, Graduate and Extended Education	(410) 830-2078
Dining Services	(410) 830-2302
Early Childhood Education	(410) 830-2572
Economics	(410) 830-2959
Education	(410) 830-2566
Elementary Education	(410) 830-2565
English	(410) 830-2871
Event & Conference Services	(410) 830-2315
Facilities Rental	(410) 830-2315
Finance (Academic Program)	(410) 830-2465
Financial Aid	(410) 830-2061
Foundation, TU, Inc.	(410) 830-2040
Geography & Environmental Planning	(410) 830-2973
GRADUATE STUDIES OFFICE	(410) 830-2500
Health Center	(410) 830-2466
Health Science	(410) 830-2637
History	(410) 830-2923
Human Resources	(410) 830-2162
Institutional Advancement Vice President	(410) 830-2223
Interdisciplinary Studies	(410) 830-2330
International Student & Scholar Office	(410) 830-2421
International Studies	(410) 830-3510
Internship/Cooperative Education	(410) 830-2932
January Courses	(410) 830-2032
Kinesiology	(410) 830-2377
Management	(410) 830-2934
Marketing	(410) 830-3351
Maryland Writing Project	(410) 830-2432
Mass Communication & Communication Studies	(410) 830-2891

Mathematics	(410) 830-3091
Modern Languages	(410) 830-2883
Music	(410) 830-2839
Natural Sciences	(410) 830-3003
New Student Relations	(410) 830-2310
Non-Traditional Undergraduate Programs	(410) 830-2471
Nursing	(410) 830-2067
Occupational Therapy	(410) 830-2640
Orientation	(410) 830-2309
Parking Services	(410) 830-2284
Part-time Jobs Office	(410) 830-2730
Philosophy & Religion	(410) 830-2755
Physics	(410) 830-3020
POLICE DEPT., UNIVERSITY	(410) 830-2133
Political Science	(410) 830-2958
Post Office	(410) 830-2260
President	(410) 830-2356
Provost	(410) 830-2125
Psychology	(410) 830-2634
Reading, Special Education, and Instructional Technology	(410) 830-2576
REGISTRAR	(410) 830-2700
Residence	(410) 830-2516
Secondary Education	(410) 830-2562
Services for Students with Disabilities	(410) 830-2638
Social Science	(410) 830-2330
Sociology	(410) 830-2852
Sports Information	(410) 830-2232
Student Academic Advisors (Peer Advisors)	(410) 830-3497
Student Development	(410) 830-3307
Student Government Association	(410) 830-2711
Student Life Vice President	(410) 830-2055
Student Teaching (CASE)	(410) 830-2567
SUMMER COURSES	(410) 830-2022
Theatre Arts	(410) 830-2792
Ticket Office	(410) 830-2244
Tiger Club	(410) 830-3284
Tower Echoes	(410) 830-2280
TowerLight	(410) 830-2288
University Relations	(410) 830-2230
University Store	(410) 830-2323
University Undergraduate Studies	(410) 830-2330
University Union	(410) 830-2362
Veteran's Affairs	(410) 830-3094
Women's Center	(410) 830-2666
Women's Studies	(410) 830-2660
WMJF	(410) 830-8788
WTMD	(410) 830-8937

FOR THE NUMBERS OF ALL OTHER

DEPARTMENTS, CALL (410) 830-2000

An attendant will be on duty from

8:30 a.m. to 4:30 p.m.

Monday through Friday

MAILING ADDRESS:

Towson University

8000 York Road

Towson, Maryland 21252

TU HOME PAGE ADDRESS:

<http://www.towson.edu>



Dear Students:

Welcome to the Towson University (TU) campus and community. You have chosen an outstanding university to help you further your education.

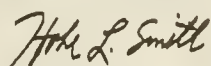
Towson's dedicated faculty, excellent physical facilities, state of the art technology, and prime metropolitan location create a positive living and learning environment. You will find a variety of curricular and extracurricular programs offering opportunities for you to broaden your horizons both academically and personally.

The strength of TU in the liberal arts and sciences provides an important background essential to continuing professional growth, occupational achievement, intelligent citizenship, and personal enrichment. TU also sustains a full range of undergraduate programs in applied professional fields including business, education, occupational therapy, and nursing.

We are proud of our students' achievements, whether in academics, art, athletics, music, student government, theatre, or in voluntary service to the community. We are proud of our faculty, many of whom enjoy national and international recognition. We are also proud of the success so many of our alumni have demonstrated.

This catalog will serve as your guide during your career at TU. It will introduce to you the programs and services that can make your time at Towson University enjoyable and productive. We are glad you are here. We wish you the best in all of your university interests and endeavors in the years ahead.

Cordially,

A handwritten signature in dark ink, reading "Hoke L. Smith". The script is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Hoke L. Smith
President





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The University

Towson University, the liberal arts-based, comprehensive metropolitan university of the Baltimore region, is nationally recognized for its excellent programs in the arts and sciences, business, communication, fine arts, allied health sciences, and teacher education. Located eight miles north of the beautifully renovated downtown Baltimore area, the University's park-like 318 acres provide a pleasant place for study, a diverse campus life, and easy access to a wealth of university and community resources. TU enrolls and graduates more undergraduate students from the region than any other institution.

HISTORY

The institution known today as Towson University opened its doors in 1866 in downtown Baltimore as the Maryland State Normal School--the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland. The first class consisted of 11 students.

In 1915 the school moved to Towson. By 1935 it established the Bachelor of Science degree in education and changed its name to Maryland State Teachers College at Towson. In 1946 it introduced an arts and sciences program, and in 1963 the institution expanded its offerings in the arts and sciences and became Towson College.

Towson was granted university status on July 1, 1976 in recognition of its development into a comprehensive university. And in 1988 Towson University joined the new University System of Maryland. As of January, 1997, the University has graduated 79,567 students, 7,370 of them having received advanced degrees.

Enrollment for the 1996 fall semester academic year was 10,080 full-time undergraduates, 2,983 part-time undergraduates, and 2,042 graduate students.

PHILOSOPHY OF LIBERAL ARTS EDUCATION AT TU

Excellence begins at TU with its commitment to a sound liberal arts education for every student. All students explore the historical development and interrelationships among the four central areas of knowledge (fine arts, humanities, natural and mathematical sciences, and social and behavioral sciences), and how each of them addresses the world, investigates, reaches conclusions, and presents findings--extending the reaches of human knowledge. The University helps all students develop a range of intellectual skills that will continue to enrich and shape their lives long after their formal education has ended.

Beyond its commitment to providing this rich academic foundation, Towson University sustains a full range of undergraduate programs in both the traditional arts and sciences and in applied professional fields. Towson University offers innovative and distinguished curricula in Women's Studies, Writing, the Fine Arts, and Teacher Education, as well as impressive programs in Business, Computers and Information Sciences, Mass Communication, and the Health Professions. Appendix A outlines University goals.

COLLEGES

Students choose their programs of study from the university's academic colleges: the College of Business and Economics, the College of Education, the College of Fine Arts and Communication, the College of Health Professions, the College of Liberal Arts, and the College of Natural and Mathematical Sciences. All undergraduate programs within each college and school are fully described in the *Catalog*. For information on the College of Graduate and Extended Education, see a description in this *Catalog* and the *Graduate School Catalog*.

FACULTY

Towson University offers many opportunities for close student-faculty contact and promotes a supportive environment that encourages experimentation and personal growth. A student-faculty ratio of approximately 17:1 allows students to interact closely with their professors. Nearly 85 percent of the full-time faculty have earned the highest degree of academic preparation expected for their fields of specialization. On the merits of their expertise, the importance of their published works, and the honors they have received, many of the 469 full-time instructors are recognized nationally and internationally. Small classes and the tradition that all instructors, including most full professors, teach introductory courses help to enhance the strength of Towson's faculty--their dedication to excellent teaching.

GOVERNANCE

The Board of Regents of the University System of Maryland govern the university. Each of the 17 regents is appointed by the Governor of Maryland. All university programs are maintained by the university president and by authority delegated to the provost and to the vice-presidents for student life, institutional advancement, and administration and finance. The University Senate and its committees develop university policies and procedures. Voting Senate members include 18 elected faculty, the President of the Faculty Association, and 6 student members, including the Student Government Association President. The University President and Vice Presidents are non-voting members of the Senate. The College of Graduate and Extended Education is an administrative division supervised by a dean and governed by the University Senate. Each of the other six colleges is administered by an academic dean and governed by a council whose members include the dean, elected faculty, and appointed students. The councils establish policies and procedures governing the programs of the academic departments they represent.

STUDENT GOVERNMENT ASSOCIATION

The Student Government Association is the student governmental body authorized by the administration of the university. The SGA consists of an executive branch, composed of a president, vice president, and treasurer, and a legislative body called the Senate, composed of 14 students elected at large and one student appointed from the freshman class. The SGA Senate and its committees develop policies and procedures affecting students and student-run organizations.

ACCREDITATION

Towson University is accredited by the Middle States Association of Colleges and Schools, the Maryland State Board of Education, the National Association of Schools of Music, the National Association of Schools of Dance, Maryland State Board of Nursing, the National League for Nursing, the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AORTA), Education Standards Board of the Speech-Language-Hearing Association, the American Assembly of Collegiate Schools of Business-Business Administration Major, the American Assembly of Collegiate Schools of Business-Accounting Major, the American Chemical Society, the National Council for Accreditation of Teacher Education - AAHPERD, American Association for Health Education (NCATE-AAHE), the National Athletic Trainers Association, and the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board.

The University is a member of the American Council on Education, the American Association of State Colleges and Universities, and The Association of American Colleges.

ASSESSMENT

Assessment is a process by which educational effectiveness is determined by relating institutional and program mission and goals to actual student learning outcomes. It involves systematically collecting, analyzing, and using information about student learning for the purpose of improving the quality of teaching and learning. Assessment is an ongoing process and a regular part of the teaching-learning cycle. Students, therefore, will participate in all phases of assessment activities as an integral part of their educational experience.

Believing that assessment is intrinsic to its well-being, Towson University has established an assessment program which is overseen by the University Assessment Council (UAC) and its three subcommittees--the Majors Assessment Resources Subcommittee (MARS), the General Education Assessment Subcommittee (GEAS), and the Surveys of Alumni Subcommittee (SAS). This assessment program demonstrates the University's commitment to achieving and maintaining excellence in its academic and extracurricular programs, as reflected in the impact of the total University experience upon its student.

PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson University is in compliance with Section 513 (Protection of rights and privacy of parents and students) and Section 514 (Protection of pupil rights) of Title V of the Family Educational and Privacy Act (Buckley Amendment), 1974. As such, it is the policy of the University (1) to permit students to inspect their academic records; (2) to limit disclosure to others of personally identifiable information from education records without students' prior written consent, and (3) to provide students the opportunity to seek correction of their education records where appropriate.

A more complete description of the policy and the records considered confidential may be found in Appendix F.

NON-DISCRIMINATION IN EDUCATION AND EMPLOYMENT

Towson University is an agency of the State of Maryland and a constituent institution of the University System of Maryland. Towson University complies with applicable state and federal laws and regulations prohibiting illegal discrimination.



as of 5/22/97 at 1:00 p.m.

GENERAL EDUCATION COURSES

Note: Additional courses will be certified as meeting GenEd requirements in some subcategories.

Please consult updated lists posted at Advising Center, Registrar's Office, and on the Student

Access System. Updated lists will also be posted in the Triad advising and registration areas.

Courses which have not been certified may NOT be substituted.

I.A	I.B	I.C	I.D	I.E	II.A.1	II.A.2	II.B.1	II.B.2	II.B.3	II.C.1	II.C.2	II.C.3	II.D
Wr. >Lib Ed	Using Info.	Coll. Math.	Adv. Comp.	Creativ.	Sci. Inq.	Sc/Tec/Soc	AM: Ar/Hu	AM: SBS	Contemp	WH: Ar/Hu	WH: SBS	WH: Divers.	Global
ENGL102	ART 100	MATH105	ANTH401	ART102	BIOL110	COSC311	AMST201	ANTH209	COMM131	ARTH 109	ECON201	ENGL233	ANTH207
ENGL190		MATH111		ART106	BIOL112	COSC321		ANTH211	COMM132	ARTH207	ECON203	ENGL235	ANTH208
	COSC111	MATH115	ART351	ART107	BIOL115	COSC418	ARTH 113		COMM379	ARTH221			ANTH210
		MATH119		ART109	BIOL201		ART 115	ECON 202		ARTH222	GEOG109	MUSC205	
	IDHS 110	MATH205	BIOL381	ART113		IDNM 305			DANC105		GEOG110		ARTH105
		MATH207		ART126	CHEM100		ENGL230	POSC103	DANC106	DANC102		PHIL204	ARTH107
	IDLA 101	MATH211	DANC321		CHEM101	MATH305	ENGL236	POSC207			POSC101	PHIL206	ARTH 108
		MATH231		COSC109	CHEM102			POSC209	HLTH 101	ENGL221		PHIL251	ARTH 208
	IDNM101	MATH237	ECED422		CHEM105	PHIL319	HIST145	POSC212	HLTH207	ENGL222	PSYC101		
		MATH263		DANC235	CHEM106		HIST146		HLTH221	ENGL240	PSYC102	SOCI241	ENGL244
	ISTC201	MATH273	ECON323		CHEM112	WMST339		PSYC203		ENGL243			ENGL248
		MATH274	ECON325	ENGL283			MUSC111		KNES 235	ENGL261		IDIS101	
	OCTH211	MATH275	ECON333	ENGL311	GEOG101		MUSC123	SOCI101		ENGL263			GEOG102
		MATH293	ENGL312				MUSC125	SOCI102	MCOM151	ENGL290		THEA 303	GEOG105
	MUSC 100		EDUC301		GEOL 111		MUSC127		MCOM140				
		PSYC212			GEOL 121					HIST101		WMST231	HIST107
	PHIL 102		ELED321		GEOL 123		THEA103			HIST241		WMST232	HIST109
				THEA101						HIST242			HIST 111
	THEA125		ENGL 310	THEA 142	PHSC101				OCTH103	HIST 243		FREN201	HIST121
			ENGL313		PHSC111							FREN202	HIST122
			ENGL315		PHSC121				PHEC235	MUSC101		FREN301	HIST134
			ENGL316		PHSC123					MUSC102		FREN302	HIST 135
			ENGL317		PHSC161				PHIL253	MUSC105		GERM201	HIST151
			ENGL318		PHYS100					MUSC 106		GERM202	
					PHYS131				SOCI210			GERM301	MUSC109
					PHYS135					PHIL101		GERM302	
					PHYS 202				SPPA205	PHIL 111		ITAL201	PHIL 105
					PHYS211					PHIL221		ITAL202	PHIL205
					PHYS212							ITAL301	PHIL219
			HLTH315		PHYS241					THEA241		ITAL302	
					PHYS242					THEA242		PORT201	POSC105
			KNES 351									PORT202	POSC107
			KNES 353							FREN101		RUSS201	
			KNES 417							FREN102		RUSS202	WMST233
										GERM101		SPAN201	
			MCOM356							GERM102		SPAN202	CHNS101
			MCOM 357							GRK101		SPAN301	CHNS102
			MCOM363							GRK102		SPAN302	CHNS201
			MCOM377							GRK103			CHNS202
										GRK104			CHNS301
										ITAL101			CHNS302
			MUSC302							ITAL102			HEBR101
										LATN101			HEBR102
			NURS409							LATN102			HEBR201
			NURS 433							LATN201			HEBR202
										LATN202			HEBR301
			OCTH430							LATN301			HEBR302
										LATN302			JPNS101
			PHEC351							PORT101			JPNS102
			PHEC353							PORT102			JPNS201
			PHEC417							RUSS101			JPNS202
										RUSS102			JPNS301
			PHIL460-469							SPAN101			JPNS302
										SPAN102			
			PSYC314										
			SPPA417										
			THEA307										
			WMST333										
			WRIT312										
			WRIT335										
			WRIT354										
			WRIT375										

The University Curriculum

CURRICULUM

Graduates from Towson take pride in the breadth and depth of their knowledge. Their broad background in the liberal arts stems from the General Education (GenEd) requirements, upon which they have build concentrated study in one subject, their major field of study. They may select courses ranging from the traditional (Socratic and Platonic philosophy) to the contemporary (Fourier Transform Nuclear Magnetic Resonance). This undergraduate foundation amply prepares them to take their place in the professional world or in graduate studies.

Thirty academic departments encompass over 40 majors and over 60 concentrations leading to the Bachelor of Arts or Bachelor of Science degrees. These departments also offer many minor, certificate of proficiency, and specialized programs.

In this section:

- Designing your course of study
- Meaning of Course Numbers
- Degree requirements
 - Student Responsibility
 - Bachelor of Science
 - Bachelor of Arts
 - Bachelor of Fine Arts
- Catalog selection
- General Education (GenEd) requirements
- Transfer Packages
- Choosing a Major
- Screened Programs
- Colleges and Schools
- Opportunities for Off-Campus Studies
- Study Abroad
- The Office for Non-Traditional Undergraduate Programs
- Military Science Programs
- Honors Programs

DESIGNING YOUR COURSE OF STUDY

Although many students enter the University fully aware of their academic and occupational goals, others have yet to discover a field or program of specialization. Frequently, students change their majors several times over the course of their college careers. Students may explore the range of programs that may interest them in several ways.

- Consulting with an advisor at the University Academic Advising Center, Lecture Hall, 410-830-2472
- Meeting with their assigned faculty advisor or with a faculty member whose field of study interests them
- Exploring career opportunities and vocational interests through the Counseling Center, Glen. Esk, 410-830-2512
- Investigating career opportunities at the Career Services Center, University Union 217, 410-830-2233

THE MEANING OF COURSE NUMBERS

Each department of the university has one or more abbreviations for each general subject area (e.g., French in the modern language department). The code abbreviations are shown in parentheses at the head of the course listings. These abbreviations form a four-letter code, which precedes a three-digit Course Classification Number, forming a seven-character Course Number. Each course has a distinctive number with the following significance:

Course Classification Numbers	Significance of Numbers
-------------------------------------	-------------------------------

101-299	Lower Division Undergraduate Course (UG) and Physical Education Lab skill courses with credit.
---------	--

301-499	Upper-Division Undergraduate Courses. Certain graduate credit (UG & G). Their graduate course numbers are in brackets.
500-899	Graduate Division Courses

Sequential Courses

Courses whose numbers are separated by a hyphen are to be taken in sequence. When course numbers are separated by a comma, either semester may be taken independently of the other. (See Prerequisites.)

Elective Courses

Students majoring in the various areas need to choose their electives with extreme care. Before registering for courses that are not required, students should consult their advisors. The advise of the instructor of the course or the chair of the department in which the elective course is listed may be needed be a decision is made concerning the choice of an elective.

Credit Value of Courses

The semester credit value of the course is indicated in the parentheses following the title.

Time of Offering

All required courses are usually offered at least once a year. Elective courses in each department are offered on a regular rotation so that each is available at least once every three years. All courses are offered subject to sufficient enrollment.

DEGREE REQUIREMENTS

Student Responsibility

Students are expected to familiarize themselves with the *Undergraduate Catalog* and to satisfy all published degree requirements. Failure to do so does *not* provide a basis for exceptions to academic requirements or policies. It is expected that students will receive assistance from general academic and faculty advisors, but students must assume responsibility for their degrees.

Students are also expected to be familiar with regulations pertaining to campus life and deportment, and to conduct themselves in a way that reflects well upon themselves and Towson University.

Finally, students are expected to maintain communication with the University and to assure that their current addresses and telephone numbers are on file in the Registrar's Office.

Bachelor of Science

Students must fulfill the following requirements to graduate with a Bachelor of Science degree.

1. Completion of a graduation application, filed with the Graduation Clearance Office (Admin. 232), according to the following deadlines:
 - June graduates file by September 30 of the year prior to graduation.
 - December graduates file by May 30 of the year of graduation.
 - September graduates file by March 31 of the year of graduation.
2. At least 120 earned credit hours.
3. The General Education requirements (see below) or, for pre-1996 Catalogs, the GURs.
4. At least 32 credit hours (part of the 120 total credits required) of upper-level work (courses numbered 300+ or 400+). Courses taken at two-year institutions *cannot* count as part of the 32 upper-level credit hours required. Courses from four-year institutions will transfer at the numerical level as they were counted at the transfer institution and may not be converted to an equivalent TU number or level.
5. Completion of Writing for a Liberal Education (ENGL 102) or its equivalent with a grade of "C" or higher.

6. Completion of a major (a grade of "C" or higher must be earned in all courses applied toward the major or, if applicable, minor).
7. A cumulative quality point average of at least 2.00.
8. Completion of at least 15 credit hours *after* formal matriculation as a degree candidate.
9. Completion of at least 30 credit hours in residence at Towson unless permission is granted in advance by the Academic Standards Committee to earn the credits at another institution.
10. Demonstration of personal qualities that are expected of an educated individual.

The undergraduate records of all persons receiving a Bachelor's degree are CLOSED approximately six weeks after the official date of graduation. Any changes to the permanent record MUST be made within this period of time.

Bachelor of Arts

The requirements for the Bachelor of Arts degree mirror those for the Bachelor of Science degree, but Bachelor of Arts candidates must also complete a foreign language through the intermediate (200) level (or the equivalent). See Modern Languages section in this *Catalog*.

Bachelor of Fine Arts

The Bachelor of Fine Arts degree is available only to students who complete the major in Dance. The requirements for the Bachelor of Fine Arts degree are identical to those for a Bachelor of Science degree, but Bachelor of Fine Arts candidates must also fulfill the performance and studio requirements specified by the Dance Department.

NOTE: Students may even earn only ONE degree. It is *not* possible to earn both a Bachelor of Science and a Bachelor of Arts or Bachelor of Fine Arts degree simultaneously.

CATALOG SELECTION

Students must fulfill all degree requirements from a single catalog. They will be assigned the catalog in effect at the time of their **original** matriculation at Towson, and so long as they meet the requirements within ten years of matriculation, they will graduate according to the requirements stated in that catalog.

Students may, for the purpose of fulfilling degree requirements, petition the Academic Standards Committee for permission to use an alternate catalog. Possible alternatives include:

1. Using the catalog in effect at the time of their original matriculation at their initial transferring institution, provided ten years have not elapsed. **Students may elect this option only by writing to the Office of Admissions during their first semester after matriculation at Towson;**
2. Selecting the catalog applicable to their graduating class (year of graduation minus four years). Students who elect this option must anticipate graduating by September of the year of graduation;
3. Asking for a maximum of a one-year extension of their original catalog.

CATALOG EXTENSION

The Academic Standards Committee authorizes the Registrar to grant a one-year extension to degree candidates who have been unable to meet the major or general degree requirements in effect at the time of their original matriculation. This extension is granted only if students have been attending the University on a regular basis (no more than a two-year time period without any course work).

Forms to petition the Academic Standards Committee to change catalogs are available outside Admin. 223. Students must see an academic advisor before submitting this form in order to determine the ramifications their selection may have on their degree requirements. Any change in catalog may affect degree requirements and negate previous advising.

GENERAL EDUCATION REQUIREMENTS (GenEd)

General Education (GenEd) requirements apply to all students whose catalog of record is the 1996-97 catalog or thereafter.

General Education requirements (GenEd) at Towson University instill skills and knowledge fundamental to all students who wish to advance their academic education, pursue life-long learning, act as informed citizens, define and achieve vocational opportunities, and conduct enriched personal lives.

The requirements are grouped in two basic categories: I. Skills for Liberal Learning, and II. Contexts for Liberal Learning. The requirements acknowledge that skills for knowing and what is to be known are closely integrated. Category I emphasizes useful tools for gathering, evaluating, valuing, and shaping information and ideas. Category II identifies social, historical, cultural and scientific contexts wherein knowledge finds active meaning, and emphasizes the need for understanding interdisciplinary relationships among the different ways of knowing.

Category I: Skills for Liberal Learning

- Subcategory I.A: Writing for a Liberal Education
- Subcategory I.B: Using Information Effectively
- Subcategory I.C: College Mathematics
- Subcategory I.D: Advanced Composition
- Subcategory I.E: Creativity and Creative Development

Category II: Contexts for Liberal Learning

- Subcategory II.A.1: Scientific Inquiry
- Subcategory II.A.2: Science, Technology, and Modern Society
- Subcategory II.B.1: American Experience: Arts and Humanities
- Subcategory II.B.2: American Experience: Social and Behavioral Sciences
- Subcategory II.B.3: American Experience: Contemporary Issues
- Subcategory II.C.1: Western Heritage: Arts and Humanities
- Subcategory II.C.2: Western Heritage: Social and Behavioral Sciences
- Subcategory II.C.3: Western Heritage: Cultural Plurality and Diversity
- Subcategory II.D: Global Awareness: Non-Western Cultures, Traditions, Issues

Each student must take **one approved course in each subcategory**, except that in subcategory II.A.1, the student must take two courses (either one course each in two different disciplines or two sequential courses in a single discipline; one of the two courses in II.A.1 must be a lab course.)

If the two courses in II.A.1 add up to more than 7 credits, the student is exempt from II.A.2

A grade of "C" or better is required in the course fulfilling I.A, and in the course fulfilling I.D. In I.A, a grade of "PS" is acceptable, provided the course is not required for the major or minor.

The course taken for GenEd credit in II.B.1 and the course taken for GenEd credit in II.C.1 cannot be in the same discipline (discipline is indicated by the alphabetical prefix, such as HIST or THEA).

The course taken for GenEd credit in II.B.2 and the course taken for GenEd credit in II.C.2 cannot be in the same discipline (discipline is indicated by the alphabetical prefix, such as ANTH or SOCI).

In all Category II (i.e., II.A through II.D), no more than three courses in the same discipline can be taken for GenEd credit (discipline is indicated by the alphabetical prefix, such as ARTH or PHIL).

Courses certified for GenEd credit in each subcategory are listed on the following spreadsheet. This spreadsheet was prepared when the catalog went to press; additional courses may have been certified since that date. Please consult the spreadsheet posted at the Registrar's office and the Advising Center for the most up-to-date list of certified GenEd courses.

TRANSFER PACKAGES

Towson offers Transfer Packages to newly enrolled transfer students from Maryland public post-secondary institutions. The packages vary according to the GenEd requirements of the sending institution. They are as follows:

GEN-ED TRANSFER PACKAGES - FALL 1996

I. MARYLAND PUBLIC COMMUNITY COLLEGE PACKAGES

PACKAGE 1 35-36 Required by and completed at **Sending Institution**

9
44-45 Required at TU

- I.D. Advanced Composition (**Upper Level**)
- II.A.2 Science, Technology & Modern Society (**Upper Level**)
- II.C.3 Cultural Plurality & Diversity

PACKAGE 2 32-34 Required by and completed at **Sending Institution**

12
44-46 Required at TU

- I.D. Advanced Composition (**Upper Level**)
- II.A.2 Science, Technology & Modern Society (**Upper Level**)
- II.C.3 Cultural Plurality & Diversity and one of the following
- I.B. Using Information Effectively
- I.E. Creativity & Creative Development

PACKAGE 3 30-31 Required by and completed at **Sending Institution**

15
45-46 Required at TU

- I.D. Advanced Composition (**Upper Level**)
- II.A.2 Science, Technology & Modern Society (**Upper Level**)
- II.C.3 Cultural Plurality & Diversity and two of the following
- I.B. Using Information Effectively
- I.E. Creativity & Creative Development
- II.D. Global Awareness

II. MARYLAND PUBLIC BACCALAUREATE INSTITUTIONS

PACKAGE 4 40 Required by and completed at **Sending Institution**

6
46 Required at TU

- I.D. Advanced Composition (**Upper Level**) and one of the following
- II.A.2 Science, Technology & Modern Society (**Upper Level**)
- II.C. Cultural Plurality & Diversity
- II.D. Global Awareness

PACKAGE 4A 40 Required by and completed at **Sending Institution**

6
46 Required at TU

- II.A.2 Science, Technology & Modern Society (**Upper Level**)
- II.C.3 Cultural Plurality & Diversity
- II.D. Global Awareness

PACKAGE 5 41-43 Required by and completed at **Sending Institution**

3
44-46 Required at TU

- I.D. Advanced Composition (**Upper Level**)

PACKAGE 5A 41-43 Required by and completed at **Sending Institution**

3
44-46 Required at TU

- one of the following
- II.A.2 Science Technology & Modern Society (**Upper Level**)
- II.C.3 Cultural Plurality & Diversity

PACKAGE 6 44-46

Required by and completed at **Sending Institution**

0

Required at TU

46

GEN-ED SATISFIED IN TRANSFER

Transfer packages are not available to students transferring from private or out-of-state institutions; their transfer courses will be applied to GenEds on a course-by-course basis.

CHOOSING THE MAJOR

After students have sampled several courses, they begin to narrow their interests to one field of study, their "major." The major may require as few as 30 hours or as many as 70 hours; the exact number varies and is set by the academic department.

Concentration

In some departments the major is further divided into concentrations. A concentration is a focused area of study involving approximately 15 to 24 credits. Because the University formally recognizes concentrations, they will appear on students' academic records. Students interested in a particular concentration within a major should contact the department for details.

Track

A track is a University-approved area of focus within a larger area of study, but it has not been formally approved by the Maryland Higher Education Commission (MHEC). Because it does not carry formal recognition, it will not appear on the academic record.

SCREENED PROGRAMS

Certain programs of study are "screened." That is, students must meet certain criteria before they are admitted to those programs. Those criteria are published in the applicable sections of this catalog. Admission to the University does not guarantee admission to screened programs.

Out-of-State Students

Recognizing the advantage of a diverse student body, the University welcomes out-of-state applicants to its screened programs. However, because the University is partially supported by Maryland taxpayers, the proportion of out-of-state students admitted to its screened programs must be limited. Therefore, no more than 25% of each class of new students admitted to screened programs will be out-of-state residents unless qualified in-state students are unavailable.

COLLEGES AND SCHOOLS

The university comprises seven colleges and schools: The College of Business and Economics, The College of Education, The College of Fine Arts and Communication, The College of Health Professions, The College of Liberal Arts, The College of Natural and Mathematical Sciences, and the College of Graduate and Extended Education. Once students have determined a program of study, they become a member of, and graduate from, the academic college or school administering the program.

College of Business and Economics

The mission of the College of Business and Economics is to provide successful graduates with Knowledge, Skills, and Attitudes (KSAs) that employers want. Dynamic partnerships with business, government, and non-profits enhance the academic program. All programs are AACSB accredited (American Assembly of Collegiate Schools of Business). Students earn degrees in accounting, business administration, and economics. Within the business administration degree, students may choose among economics, finance, international business, management, and marketing, or develop their own specialization through the CBE personalized option.

Academic Programs

Accounting (AACSB accredited)*†
 Business Administration (AACSB accredited)*†
 CBE Personalized Track
 Economics Track
 Finance Concentration
 International Business Track
 Management Concentration
 Marketing Concentration
 Economics (AACSB accredited)†

College of Education

As the first teacher training institution in Maryland, Towson University has been preparing men and women for teaching careers for 130 years. Today, the College of Education has a nationwide reputation as a leader in teacher education. Programs of study lead to the baccalaureate degree in education with certification to teach Early Childhood, Elementary, and Secondary Education. In addition, the college offers teacher certification for students enrolled in other colleges of the university.

Academic Programs

Art Education (Kindergarten to grade 12)*
 Dance Performance and Education (Kindergarten to grade 12)*
 Early Childhood Education*§
 Elementary Education*§
 Reading, Special Education, and Instructional Technology
 Library and Information Services Concentration
 School Media Concentration
 Music Education (Kindergarten to grade 12)*
 Vocal-General Music Education Concentration
 Instrumental Music Education Concentration
 Physical Education (Kindergarten to grade 12)*
 Secondary Education*
Major in one of 12 academic areas:
 Biology, Chemistry†, English§, French, General Science§,
 Geography §, German, Health, History†, Mathematics†,
 Physics†, Social Science, Spanish

College of Fine Arts and Communication

Designated as a center for fine and performing arts education in the state of Maryland, the College of Fine Arts and Communication trains talented men and women to pursue careers in the arts and communication. Additionally, the college offers all TU students the opportunity to participate in both academic and artistic experiences in these areas.

Because the creative process involves close dialogue between teacher and student, programs are structured to allow for individual attention. All programs provide a broad liberal education as well as specialized professional training.

Graduates of the College of Fine Arts and Communication find careers in many creative areas. An art history major could seek a career as an art critic, a gallery director, an art therapy specialist, or a museum education program specialist, among others. Mass communication majors pursue careers in radio and television, newspapers, public relations, film, advertising, and governmental and non-profit organizations. An art major might seek a career as a teacher, interior designer, illustrator, graphic designer, or photographer. Dance majors seek positions as professional performers and choreographers, university faculty members, or teachers in public schools and private studios. A communication studies major might choose sales, public relations, lobbying, public affairs, law, corporate relations, teaching, and communications consulting. Music graduates are well-represented in majors, ensembles, orchestras and military bands across the country; many are teachers, some music librarians.

Academic Programs

Art
 Art History Concentration
 Crafts Concentrations
 Fibers
 Jewelry/Metal
 Ceramics
 Printmaking Concentration
 Painting Concentration
 Sculpture Concentration
 Visual Communication/Photography Concentration
 Art Education*
 Communication Studies (formerly Speech Communication)
 Dance Performance*
 Dance Performance and Education*
 Mass Communication
 Advertising Track
 Broadcast Journalism Track
 Film Track
 General Mass Communication Track†
 Journalism Track
 Public Relation Track
 Radio Track
 Television Track
 Music*
 Voice Performance Concentration
 Guitar Performance Concentration
 Keyboard Performance Concentration
 Winds/Strings/Percussion Performance Concentration
 Composition Concentration
 Music Literature Concentration
 Jazz/Commercial Composition Concentration
 Jazz/Commercial Performance Concentration
 Music Education*
 Instrumental
 Vocal/General
 Theatre Arts
 Performance Studies Area
 Acting Focus
 Directing/Stage Management Focus
 Movement Theatre Focus
 Design & Production Area
 Lighting Design Focus
 Scenery Design Focus
 Costume Design Focus
 Theatre Production Focus
 General Theatre Area
 Independent Focus
 Theatre Arts Administration Focus

College of Health Professions

The departments of the College of Health Professions have the common goal of preparing students to provide human services designed to improve the quality of life. The college is composed of the departments of Communication Sciences and Disorders, Health Science, Nursing, Occupational Therapy and Kinesiology. Graduates of the baccalaureate programs of Nursing and Occupational Therapy are eligible to sit for their respective certification examinations.

A major in the College of Health Professions can prepare students for one of many health-related careers. Some examples include community health education, speech and language pathology, hospital management, teaching, medical technology, sports medicine, professional coaching, exercise physiology, sports information, recreation leadership, research, and government service.

Academic Programs

- Health
 - Health Care Management
 - Community Health Education Track
 - School Health Education Track
- Nursing*
 - Basic Program
 - Registered Nurse Completion Program
- Occupational Therapy*
- Kinesiology
 - Teacher Education Program*
 - Athletic Training*
 - Sport Studies Program
 - Psychology of Sport and Physical Activity Track
 - Sport Communication Track
 - Sport Management
- Speech-Language Pathology and Audiology*

College of Liberal Arts

Liberal arts education produces an individual who can analyze and interpret information and arrive at informed judgments about complex issues. The College of Liberal Arts offers courses that are designed to assist students in developing these abilities.

More than 2,500 undergraduates major in liberal arts programs at TU. More than 500 graduate students are pursuing master's degrees in the college. The College of Liberal Arts emphasizes excellent teaching, scholarship, and creativity. Its students and faculty contribute actively to the intellectual and cultural life of the community.

The liberal arts provide an excellent preparation for many careers as well as for graduate studies. Liberal arts programs are often recommended as preparation for law school because they encourage the development of analytical skills. Liberal arts graduates can seek careers in such diverse areas as teaching, law, journalism, counseling, museum work, urban planning, and publishing, among others.

Academic Programs

- English§
 - Writing
 - Literature Arts Track
 - Liberal Arts Track
- Geography§
- History†
- Interdisciplinary Studies
 - African-American Studies
 - American Studies
 - Animal Behavior
 - Asian Studies
 - Comparative Ethnic Studies
 - Environmental Studies
 - Gay & Lesbian Studies
 - Jewish Studies
 - Latin American Studies
 - Law Enforcement
 - Medieval and Renaissance Studies
 - Molecular Biology
 - Religious Studies
- International Studies
- Modern Languages
 - French
 - French Literature/Professional Program
 - French Secondary Education Program
 - German
 - German Literature/Professional Program
 - German Secondary Education Program
 - Spanish
 - Spanish Literature/Professional Program
 - Spanish Secondary Education Program

- Philosophy
- Political Science
- Psychology
 - Clinical Concentration*
 - General Concentration†
- Social Science
- Sociology and Anthropology
 - Anthropology Concentration§
 - Corrections Concentration†
 - Gerontology Concentration§
 - Sociology Concentration†
- Women's Studies

College of Natural and Mathematical Sciences

The principal goal of the College of Natural and Mathematical Sciences is to provide students with a technological/scientific dimension to their liberal education. Courses are offered in all of the traditional physical, mathematical, and life sciences disciplines. Programs are traditional, yet highly flexible. Students may choose a traditional science major or may elect to concentrate in one of a variety of areas, such as engineering, pre-pharmacy, pre-medicine, pre-dentistry, pre-veterinary medicine, pre-physical therapy or molecular biology. Another option is the major in science and/or mathematics teaching at the secondary or elementary level.

Academic Programs

- Biological Sciences
 - Animal Anatomy and Physiology Concentration
 - Botany Concentration
 - Ecology Concentration
 - Marine Biology Track
 - Microbiology Concentration
 - Pre-Medicine/Pre-Dentistry Concentration
 - Secondary School Biology and General Science Teaching Concentration
 - Zoology Concentration
- Chemistry†
 - Biochemistry Track
 - American Chemical Society Approved Degree
 - Chemistry Secondary Education Program
- Computer Science†
 - Computer Information Systems
- Computer Science & Mathematics
- Geology
- Mathematics†
 - Pure Mathematics Concentration
 - Actuarial Science Concentration
 - Applied Mathematics Concentration
 - Applied Mathematics and Computing Concentration
 - Mathematics Secondary Education Program
- Natural Science§
 - Geology Concentration
 - Earth Science Track
 - General Science Track
- Physics†
 - General Track in Physics
 - Applied Track in Physics
 - Physics Secondary Education Program
 - Dual-Degree Engineering Program

***competitive major.** Admission to the University does **not** guarantee admission to this major program. Interested students are advised to review the screening procedures described under the appropriate department within this catalog.

† Degree program available during evening hours.

§ Degree program 80% available during evening hours.

OPPORTUNITIES FOR OFF-CAMPUS STUDY

Students at Towson may expand their educational opportunities by studying in universities all over the world, all over the United States, or all over Maryland. In some of the programs, students are able to pay tuition approximately equal to that at Towson (plus transportation), while others will require additional funds. Students considering one of the off-campus study options will want to plan ahead for their experience.

Inter-Institutional/COOP Registration Program

The Inter-Institutional Registration Program at Towson University is designed to foster an interchange of students between Towson and other University System of Maryland institutions. Certain private colleges (Goucher, Loyola, Hopkins, College of Notre Dame) and Morgan State University also participate in a similar program (COOP), with no additional tuition costs to students.

Interested students should contact the coordinator at Towson. They must officially register for at least 12 hours of specific course work at the **home** institution. With approval of the coordinator, students may register for one or two courses at the **host** institution. Enrollment is on a space-available basis. Students must obtain special permits/instructor consent to register for courses that require them at the host institution. Students participating in the Inter-Institutional Registration Program must follow the withdrawal deadlines at the host institutions for courses in which they are enrolled there.

At the end of the term, the host institution's registrar will send an official transcript to Towson, and the courses completed and grades earned will be posted to the Towson record and *calculated into the Towson cumulative average*. Additionally, a notation will be made that the course work was completed through the program, indicating the name of the host institution.

Students seeking information about the Inter-Institutional Registration Program should contact Ms. Susan Hyman, the program coordinator, at 410-830-2007, or come to Room 225 in the Administration Building.

STUDY ABROAD OFFICE

Administration Bldg., Room 322, Tel: 410-830-2451, Fax: (410) 339-7151

The Study Abroad Office provides a wide range of overseas academic experiences for Towson students. It plays an important role in the University's mission to internationalize the campus community and "to provide all of its students with a broad knowledge and understanding of the global society." Currently, more than 85 students per year from a variety of disciplines participate on TU's study abroad programs.

The Study Abroad Office performs the following functions: coordinates and manages study abroad and exchange programs; advises interested and eligible students on incorporating an overseas experience in their undergraduate degree program; acts as a liaison for the student, academic departments and various administrative offices on campus, and foreign universities; provides support services to students prior to, during, and following a study abroad experience. The University maintains relationships with various institutions abroad and U.S. based organizations providing overseas study opportunities in Europe, Latin America, Africa, Asia, Canada and Australia. Specifically, the university coordinates programs with the following institutions abroad: University of Sunderland, Middlesex University and DeMontfort University in England; the Universite Francois Rabelais de Tours in Tours, France; the Carl von Ossietzky Universitaet Oldenburg in Oldenburg, Germany; the Lorenzo de' Medici Institute in Florence, Italy; Kansai Gaidai University in Osaka, Japan; the National Autonomous University of Mexico in Mexico City; St. Petersburg Conservatory and St. Petersburg Electrotechnical University in Russia.

The length of programs varies from one semester to a year or during the summer. Many programs focus on specific academic disciplines,

while others emphasize language study, independent study or an internship combined with traditional course work. Academic credit can be applied toward fulfilling requirements and electives for degree programs.

University financial aid may be applied to all TU study abroad programs. The following scholarships are available for study abroad through Towson University: Institutional Study Abroad Scholarship, FILA Scholarship, CLA International Student Exchange Scholarship, National Security Education Program. Check the scholarship section of the current *Catalog* for more information.

Each semester, several group advising sessions are conducted by the Study Abroad Office to provide students with preliminary information about overseas study opportunities and procedures. Call the office at 410-830-2451 or visit our web site for the current schedule of advising sessions. Study abroad advisers are available by appointment to meet with students who have attended a preliminary advising session. During an advising appointment, students can expect to receive information and advice on study abroad program options and how to choose an appropriate program, as well as financial aid and scholarship information, specific course information, transferring credit, registration, housing, etc.. Students are also advised on how to obtain passports, visas, the international student identification card and other necessary travel documents. Pre-departure orientation sessions are also conducted every semester for those students who have been accepted to a study abroad program. Students are strongly encouraged to attend these informative sessions as they address many critical issues such as: health, safety, travel, culture shock, etc... The office also houses a resource area for students which is replete with program/course catalogues, videos, scholarship and financial aid resources, travel guides, and miscellaneous international publications.

For further information, contact a study abroad adviser at (410) 410-830-2451 or stop by our office in Administration Building, Room 322 and pick up an information packet.

National Student Exchange (NSE)

This program allows full-time degree candidates an opportunity to become acquainted with social and educational patterns in other areas of the United States. Through Towson's membership in the NSE, students may attend one of the 130 participating schools for a semester or a full year. Schools participating in the program include ones in Puerto Rico, Guam, the Virgin Islands, 47 other states. For further information, contact the program coordinator at 410-830-3583, Enrollment Communications, 7800 York Road, 1st Floor.

Consortia Agreements:

Consortia: Students at TU may participate in consortia agreements between accredited two and four year colleges and universities. Consortia agreements are useful for students who wish to use part of their financial aid to pay for all or part of the tuition and fees at the participating institution.

Students wishing to participate in a Consortium Agreement must:

1. be in good academic standing at TU. Students for whom an exception to suspension, dismissal or disenrollment has been made or who have been readmitted on probation are ineligible.
2. not have completed more than 64 semester hours at a community college, and/or completed more than 90 total credits at all schools attended, including TU.
3. be enrolled for a minimum of six semester hours at TU, the minimum number of credits needed for financial aid eligibility.
4. obtain from the appropriate TU academic department(s), verification that the courses selected are transferable in accordance with existing transfer credit policies and procedures.
5. not attempt to repeat courses at the participating institution if the course was previously attempted at TU and a grade of D, F, or FX was earned.

6. You do not need a consortium agreement if you register through the CO-OP program or Inter-Institutionally

Students should also be aware that grades and credits earned through a consortium agreement are posted to the TU record and calculated in the academic totals. Accordingly, the Academic Standards Committee reserves the right of approval in some cases of the Pass/D F grading option for courses taken as part of a consortium agreement.

For more information, please contact Ms. Marilyn Leuthold, Administration Building, Room 126.

THE OFFICE FOR NON-TRADITIONAL UNDERGRADUATE PROGRAMS

Administration, Room 223 410-830-2471 or 410-830-2022

The Office for Non-Traditional Undergraduate Programs oversees the following programs and services: Non-Degree Student Enrollment, Teacher Certification, Second Bachelor's Degree, Golden I.D. (senior citizen tuition waiver), and Credit for Prior Learning.

The academic policies described in the admissions, curriculum, and academic regulations sections of this catalog apply to students in the above programs unless otherwise specified.

Admission

Admission is the official acceptance of a student as a degree candidate by the TU Admissions Office or Second Bachelor's Office. Registration is the enrollment in courses for a particular semester. Persons who have undergraduate status are free to register for courses as non-degree students without formal admission to the University under certain circumstances. Please see the section on Non-Degree Students. Eligibility requirements for formal admission and deadlines are detailed in the admissions section of this *Catalog*.

Non-Degree Students

Students who wish to enroll as non-degree students (not formally admitted by the University) must complete an enrollment form and submit it to the Office for Non-Traditional Undergraduate Programs before registering. Persons who have been denied admission to Towson University because of academic ineligibility will not be permitted to attend as non-degree students unless they have previously attended TU as a non-degree student. They may, however, transfer to the university if they meet transfer admission requirements after attending another college or university (see Guidelines for Transfer Admission in this *Catalog*). Persons who graduated from high school within the last two (2) years are not eligible to attend TU as non-degree students and must formally apply for admission through the Admissions Office in order to attend the University.

Non-degree students who plan to obtain an undergraduate degree at TU may apply for admission as degree candidates after 30 credits have been earned and a 2.00 cumulative quality point average has been attained. Students who wish to earn a degree from TU should be aware that only the first 60 credits earned as a non-degree student at TU can be applied to an undergraduate degree.

Students may remain in the non-degree category until they have reached 60 earned or quality hours. A student must then apply to the Admissions Office to become a degree candidate. If a student doesn't plan to receive a degree, he or she may remain a non-degree student by completing a "Lifelong Learner" form with the Office for Non-Traditional Undergraduate Programs.

International students on F1-F2/J1-J2 visas and non-native speakers may not be enrolled as non-degree students without written permission from the International Student and Scholar Office.

Non-native speakers must take an English as a Second Language test and if they are placed in remedial English courses, must complete the sequence of courses prior to their third semester.

Teacher Certification

Students who already have a baccalaureate degree and wish to take courses to become certified to teach in the State of Maryland should contact the Center for Applied Skills in Education (CASE), located in

Hawkins Hall 302B. The student must complete an **Information Form** and a **Teacher Certification Form** in order to register. Both forms are available in the CASE office and should be submitted to the Office for Non-Traditional Undergraduate Programs, Room 223, Administration Building.

Certification students will be advised by the appropriate Education Department.

Students who wish to take courses to become **re-certified** do not need to file an application with the CASE Office. They need only complete a Non-Degree Enrollment Form in Room 223 of Administration Building (see section on "Non-Degree Students").

Second Bachelor's Degree Program

The Second Bachelor's Degree Program is designed to meet the needs of college graduates who wish to attain proficiency in another major field. To qualify for admission, students must hold a baccalaureate degree either from an MHEC-approved or from another regionally accredited institution.

A maximum of 90 transferable credits of undergraduate course work from any regionally accredited institution may be applied toward the second bachelor's degree. In addition, the student must complete at least 30 credits in residence at Towson, and must meet all requirements of the "new" major with at least one-half of the "new" major credits completed in residence at Towson after the first degree. Each student must also complete an advanced writing course. All other General University/Education requirements are considered to have been met through the first degree.

Those interested in learning more about the program or receiving an application should call the coordinator at 410-830-2471. Deadlines for fall and spring admissions are June 15 and November 15 respectively. Some screened/competitive majors have earlier deadlines and separate applications.

Second bachelor's degree candidates may qualify for departmental honors, the Dean's List, and/or graduation with honors. Please refer to the "Academic Regulations" section of this *Catalog* for criteria.

The Golden I.D. Program: Senior Citizens

TU is a member of the Golden I.D. program, recognized by all universities within the University System of Maryland. The Golden I.D. program extends special privileges to all Maryland residents, age 60 or older, whose chief income is derived from retirement benefits (not working more than twenty hours a week). Golden I.D. cardholders may enroll tuition-free in a maximum of three courses each fall and spring semester (and two courses in the summer session) on an audit or credit, space available, basis (excluding special format courses). Senior citizens desiring to be formally admitted to a degree program under this policy must meet admission requirements to that program, while non-degree students must complete a non-degree enrollment form, in order to be able to register. Cardholders will also benefit from a substantial reduction in university and parking fees, free access to athletic facilities/events, and student discounts to campus cultural events. To receive a Golden I.D. and to validate it for any semester of enrollment, stop by Room 223 of the Administration Building or call 410-830-2471 for an appointment.

Credit For Prior Learning

TU recognizes that some students may have acquired abilities and/or in depth knowledge through life experience, personal study, and/or military course work. The CPL program offers an opportunity for students to receive college credit by taking "challenge" tests in the area of their proficiency, presenting portfolios, and providing documentation of military course work/experiences.

A maximum of 32 credits for "non-traditional learning" may be granted with a grade of "PE" through the Credit for Prior Learning Program (this includes any General CLEP credit granted in transfer). CPL credits can be used to fulfill GUR/GenEds, electives, and/or major requirements. A student must be a degree candidate with at least a 2.00 CQPA to have CPL credits recorded on the TU transcript.

Credits earned through CPL **cannot** be used to repeat a course that has been previously attempted or in which a grade was earned at either TU or other institutions attended.

There are several different ways to earn CPL credits at TU:

Departmental Exams

TU offers departmental "challenge" exams in Biology, Chemistry, Economics, Health Sciences, Mathematics, Modern Languages, Music, Nursing, Physical Education, and Psychology. The student's achievement in a particular test must be equal or superior to that of a student having earned a "C" or better. While departmental standards for granting credit may exceed this minimum, credit may not be granted when achievement is below "C" level work. Departments may also offer advanced placement with no credit given based on an individualized assessment.

CLEP (College Level Examination Program)

TU offers, and grants credit for, the following General and Subject CLEP tests:

General CLEP - Humanities, Math, Natural Science, and Social Science/History

Subject CLEP - Accounting (ACCT 201, 202), Business Law (BULA 225), Marketing (MKTG 341), Management (MGNT 361), Biology (BIOL 110), Freshman Composition Part I (ENGL 102), American Literature (ENGL 230 and 3 electives), English Literature (ENGL 221, 222), Educational Psychology (PSYC 201), and Sociology (SOCI 101).

For information regarding the minimum passing scores for CLEP tests, call 410-830-2471.

Individualized Assessments

Students who wish to earn credit for courses which do not have standard departmental or CLEP exams, may contact the academic department to determine if individualized assessment is possible. This type of assessment may include: portfolio review, oral or written examination, demonstration (e.g., dance or music), or written report/paper.

Military Course Work/Experience

TU is a member of Servicemembers Opportunity Colleges (SOC). Students who have served or are currently serving in the U.S. military may receive college credit for basic training, military occupational specialties, and other military course work. Official documentation must be submitted for review and evaluation per the Guide to the Evaluation of Educational Experiences in the Armed Services by the American Council on Education (ACE).

For further information on the Credit for Prior Learning Program, call the Office for Non-Traditional Undergraduate programs at 410-830-2471.

MILITARY SCIENCE PROGRAMS

Towson offers students who are interested in officer training for the military several opportunities to pursue that training.

ROTC Credit:

TU will allow for transfer credit hours earned for a recognized ROTC program sponsored by an accredited college or university. Such credits will* be considered upper- or lower-credit as defined by the transferring school, and are applicable as elective credits toward a TU degree. ROTC credits are considered to be non-traditional credits and are part of a maximum of 32 non-traditional credits allowed by existing academic policy.

US Army Reserve Officers Training Corps (ROTC)

Towson University offers Army ROTC to its students through a cooperative agreement among Loyola College, TU, and the U.S.

Army.

The primary objective of the Reserve Officer's Training Corps (ROTC) program is to prepare selected students with potential to serve as commissioned officers in one of the three components of the U.S. Army, Active Army, National Guard, and Army Reserve. The program is totally voluntary and is conducted in two phases--the basic course and the advanced course.

The basic course is taken in the freshman and sophomore years. No military commitment is incurred during this time, and students may withdraw, as with any other course, through the end of the second year. The basic course is available as an elective to all qualified students.

TU students who decide after either their freshman or sophomore years that they are interested in the ROTC program may attend a special ROTC Basic Camp. This camp will fully substitute for the first 2 years of on-campus study. This camp is held for 6 weeks during the summer, and all participants will receive pay and allowances.

Normally a student must have a minimum of 2 years of college remaining before graduation in order to join ROTC. However, on a case-by-case basis, students who will commit themselves to attending graduate school in order to meet the 2-year requirement may be permitted to enroll.

Except for veterans, the basic course or a basic camp must be successfully completed prior to entering the advanced course.

The advanced course is normally taken in the final two years of college. A paid, six-week advanced camp is held during the summer between the junior and senior years.

Army ROTC graduates may serve three or four years, or an entire career on active duty, or request Reserve Forces duty (RFD) and serve as little duty as three months on active duty. The remainder of their obligation is spent in the Army Reserve or the Army National Guard where they assume roles equally important to those of their active duty counterparts.

Specialized branch assignments are made in the students' senior year which will determine the nature of their duties once they are commissioned. These specialized assignments are based largely upon the student's major field of study and personal preferences.

Prior to graduation and commissioning, the senior student will also make known personal preferences regarding the geographical area of the world in which he or she desires to serve his or her first tour upon entering the active army.

The Army awards scholarships on a competitive basis to outstanding young men and women who are interested in serving in the active or reserve components of the U.S. Army. Details of the ROTC scholarship program are given in the section on scholarships under Financial Aid. All TU students are eligible to apply.

Enrollment for ROTC is done through the Military Science Department at Loyola. Contact the Military Science Department at (410) 617-5043 for class days and times. Generally, freshmen and sophomores taught at Towson have classes on Monday and Wednesday afternoons. Juniors and seniors attend classes at Loyola on Tuesday and Thursday afternoons.

Air Force ROTC

Air Force ROTC is available to students at Towson University through an agreement with the University of Maryland at College Park. Air Force courses are scheduled so that students from Towson University may complete most AFROTC requirements during one morning per week at the College Park campus. In addition, students at Towson are eligible to compete for all AFROTC scholarships--4, 3, and 2-year scholarships pay for total tuition and fees at both the University of Maryland and Towson University, for all required books, and provide a \$100.00 per month subsidy for both pilot and navigator training programs. Upon graduation from Towson University and completion of the AFROTC curriculum at the University of Maryland, the student will be commissioned a second lieutenant in the Air Force. Students who are interested in the Air Force ROTC can contact: Air Force ROTC, Det 330, Cole Field House, RM. 2126, University of Maryland, College Park, MD 20742, Telephone: 301-314-3242/3243/3245.

HONORS PROGRAMS

Towson provides several different ways by which students may garner "honors." Each has its own standards and requirements, and each carries its own designation.

Honors College

The Honors College is composed of specifically designed courses, most of which also fulfill a General Education requirement. Most Honors College courses cultivate a seminar climate in their focused discussion, intensiveness, and small size. The program is essentially for, but not limited to, first and second year students. Honors College courses are offered in art, biology, chemistry, economics, English, mathematics, philosophy, political science, psychology, sociology and anthropology, speech and women's studies. A student who completes five or more Honors College courses with a 3.20 or better QPA will be graduated as a participant in the Honors College and will be so designated on the transcript and diploma.

For admission, a student must have attained an 1180 combined SAT score with a minimum of 620 verbal or have been in the upper 10 percent of his or her high school graduating class. Matriculated students with a 3.20 or better QPA may also qualify for the Honors College. More information may be obtained from Dr. Erik Scully (410-830-3012), Director of Honors Programs.

Department Honors

The Departmental Honors Program represents intensive and individualized but directed education beyond the normal course instruction. This program includes six to nine semester hours' credit in seminars, directed readings (tutorials), and research projects in the major. A senior thesis is required, as is an oral defense of the thesis.

To be admitted to the program, a student must present a cumulative average of 3.25 and a 3.50 average in his or her discipline. These minima must be maintained for graduation as a Departmental Honors Program participant. Students who complete an approved program will receive a diploma and transcript with the designation, Bachelor of Science or Bachelor of Arts with Honors, in the appropriate discipline. Currently, the departments of art, biological sciences, computer and information sciences, English, history, mathematics, modern languages, physical education, physics, political science, psychology, and sociology and anthropology offer departmental honors programs. Details of each department's honors requirements may be obtained from the appropriate chair.

The Dean's List

Full-time degree candidates are eligible for Dean's List recognition each fall and spring semester provided they complete a minimum of 12 calculable semester hours and attain a 3.50 or higher quality point average.

Part-time degree candidates are eligible for Dean's List recognition each academic year provided they complete a minimum of 12 calculable semester hours and attain a 3.50 or higher quality point average during that academic year. An academic year is designated as fall through summer and includes the January Minimester.

Applicable course work is only that in which calculable grades (A, B, C, D, F, FX) are earned. Pass (PS), audit (AU), and Satisfactory/Unsatisfactory (S/U) grades do not apply toward the 12-credit minimum.

Additionally, students who receive Incomplete (I) grades for the term are *not* eligible for Dean's List honors in that term, nor may they retroactively receive those honors once the work is made up and a letter grade is earned.

Graduation with Honors

To receive a bachelor's degree with honors, students must first have completed 60 credits of undergraduate work at Towson University with the following cumulative quality point average:

- 3.75 to 4.00 Summa Cum Laude
- 3.55 to 3.74 Magna Cum Laude
- 3.40 to 3.54 Cum Laude

Transfer students must have, in addition, a cumulative 3.40 or better average for all work completed at other institutions and a minimum of 60 semester hours of work at Towson University.

Students who do not qualify for honors because of their TU or transfer QPA may petition the Academic Standards Committee if they attain a cumulative average of 3.55 or higher in their last 60 credits at Towson. These students will be eligible only for Cum Laude honors.

Student Life

Because more than a third of the students make the university their home, Towson offers many benefits of small-town living with the added bonus of activities and services to help students make the most of their time at Towson. Whether a student lives on campus or commutes he or she certainly spends a great deal of time on campus; the myriad of clubs and organizations guarantees him or her every chance for an enjoyable and successful Towson career.

This section is arranged according to the type of service or activity:

For New Students

- Orientation (Triad)
- Center for New Student Relations

For All Students

- Career Services
- Counseling (Personal Counseling, Alcohol & Drug Abuse Counseling, Life Planning & Career Development, COPE line, Outreach & Consultation)
- Health Services
 - Student Health Center
 - Speech-Language-Hearing Clinic
- Health Insurance
- Intercollegiate Athletics
- Judicial Affairs
- Multicultural Student Life
- Parking
- Recreational Sports
- Religious Activities
- Residence Life
- SAGE
- Shuttle Bus Service
- Student Development
- Student Government Association
 - Clubs and Organizations
- University Union
- Women's Center
- Specialized Services
 - Office for Students with Disabilities
 - International Students
 - English Language Center, ESOL, International Students' Center
 - Students with Children
 - Veterans

Unless otherwise stated, all offices are open from 8:30 a.m. to 4:30 p.m. Monday through Friday.

FOR NEW STUDENTS

Orientation (Triad), Newell Hall, 410-830-2306

Students new to Towson attend Triad, a one-day program combining orientation, advising, and registration. Triad is designed to ease new students' transition into the university by informing them about its programs, facilities, and services; assisting them in registering for their first semester; and providing a supportive environment in which to interact with faculty, staff, and other students.

New Student Relations, Newell Hall 410-830-2310

Following Triad, this office offers new students additional ways to integrate themselves more fully into the life of the university. Project Marj, a wilderness adventure program, helps students to work cooperatively, increase their self-confidence, form new friendships, and identify positively with the university. Project Habitat, a public-service program, and Project Cluc, an on-campus mystery game, provide similar challenges and opportunities. These programs take place in late summer before the start of the fall semester. Publications, including *Compass* (The Student Handbook), *the TU Family*

Handbook, Transitions (a guidebook for non-traditionally aged students), plus notices, newsletters and phone calls serve to keep new students informed. Various workshops and other activities help them develop leadership and problem-solving skills.

FOR ALL STUDENTS

Career Center, 7800 York Rd., Suite 408, 410-830-2233

The Career Center staff assists students with their preparation and search for meaningful and satisfying careers. The Center also provides services and information leading to full-time and off-campus part-time employment, academic internship opportunities and service learning options. To learn more about the programs and services offered by the Career Center, plan to attend an information session presented each Monday and Tuesday during the fall and spring semesters and each Monday during minimester and summer sessions.

Offices of the Center:

- Part-Time Jobs Office 410-830-2730
- Internship Office 410-830-2932
- Career Center 410-830-2233

Services for Students:

- Resume Expert Plus
- Posting of full-time and part-time employment
- Workshops on resume writing, job search tips, and interviewing techniques
- Job Fairs
- Career advising and awareness programs
- Career Resource Library
- Graduate School Information
- Credential service
- On-campus interviewing
- Resume files and referral services

All services and programs are free of charge other than the Resume Expert Plus and the credential service.

Please see **Career Action Plan, Appendix K.**

Career Development (see *Counseling*)

Counseling

Counseling Center, Glen Esk, 410-830-2512

College life presents many stresses, life changes, and opportunities for personal growth. To meet these challenges, it is often necessary to resolve emotional problems, learn new personal and social skills, and work toward developing well-chosen career and personal goals. The Counseling Center provides a variety of professional services for students who are experiencing personal difficulty or who are seeking help toward a greater level of personal effectiveness or satisfaction.

The Counseling Center is staffed by psychologists, professional mental health and substance abuse counselors, consulting psychiatrists, and psychologists working under supervision. All services at the Counseling Center are confidential. For more information or to make an appointment, call or drop by Glen Esk, the big white building in the northeast corner of the campus.

Personal Counseling, Psychotherapy, and Mental Health Services.

Several kinds of counseling help are available at the Counseling Center. A session or two of short-term counseling can help to assess personal problems, clarify thoughts and feelings, cope with immediate stresses, and make personal decisions. Several groups and counseling clinics are offered each semester, tailored to specific needs such as improving self-esteem, learning assertiveness, overcoming eating disorders, improving relationship skills, and resolving emotional trauma. Individual psychotherapy services are also available on a limited basis. Psychiatric evaluation and medication are also provided as needed.

Alcohol and Drug Abuse Program. The Counseling Center houses a state certified alcohol and other drug treatment programs,, offering

both individual and group services. These services are designed not only for those who are having a problem with alcohol or drug abuse, but also for anyone whose life has been touched by someone else's substance abuse problems.

Career Resource and Counseling Center. The Counseling Center assists students in personal life planning and career development in a variety of ways. A career library is staffed by paraprofessionals and houses the computer assisted, career development program DISCOVER. This program focuses on the world of work, personal assessment, occupational planning, and making transitions. Several other forms of assessment and information are also provided. professional staff are available by appointment for individual career counseling. Students interested in an intensive, systematic approach to career development may register for a Counseling Center sponsored elective two-credit course entitled Personal Life and Career Planning (GENL 121).

COPE-line. A collection of pre-recorded messages designed to help callers deal with the stresses and strains of daily living, COPE-line includes approximately 270 tapes on a wide variety of topics including life skills, sexuality, alcohol and drugs, health concerns, parenting, consumer information, and TU information. COPE-line also includes LEGAL-line, sponsored by the Maryland State Bar Association, and a collection of 37 tapes covering adolescent concerns, contributed by the Governor's Council on Adolescent Pregnancy.

Outreach and Consultation. Center staff are available to consult with students, faculty, and staff on such topics as improving the campus environment, group issues, and generally dealing with the quality of student life. Special workshops are offered for residence halls, student organizations, classes, and faculty and staff groups.

Greek Affairs, (see Student Development)

Health Services

Student Health Service, Dowell Health Center, 410-830-2466, 8:30 a.m. to 4:30 p.m. The Student Health Service, located in the Dowell Health Center, is open weekdays all year, with the exception of Christmas and Thanksgiving breaks, University holidays, and intersessions. Hours during the regular semester are Mon., Thurs., 8:30 a.m. to 6:30 p.m.; Tues., Wed., Fri. 8:30 a.m. to 4:30 p.m. Call for January and summer hours.

For after-hours emergencies, students should call the University Police, 410-830-2133, who will arrange transportation to a local emergency room. For non-emergencies after hours, the Health Center has arrangements with an urgent care center nearby to see students at their own expense. Call 410-830-2466 for this number.

Students will need an appointment for non-urgent problems; they may call 410-830-2466 between 8:30 a.m. and 5:00 p.m. to make them. Walk-in patients will be evaluated by a trained nurse and referred to a clinician or given a follow up appointment.

The Health Center has an experienced staff of physicians, nurse practitioners, physician's assistants, and health educators. Most services are free or offered at a minimal cost. These include treatment of common illness and injuries, a full range of sexual health services, anonymous HIV testing, simple lab tests, and health education. Prescription birth control and medications are offered at low cost.

X-rays, outside lab and other diagnostic tests, and physician or hospital referrals are the student's financial responsibility.

Health insurance is strongly recommended to help defray the costs of services not available at the Health Center. The University offers a very good insurance plan which provides coverage for such services at a very reasonable cost.

All entering students must meet the university's immunization requirements prior to registration. This should be done before arrival on campus to minimize delays in registration. Immunizations are available at the Dowell Health Center for a fee.

The SHS will provide physical education exemptions and special residence arrangements only with adequate medical documentation from the student's personal physician. Notes justifying class absence are given only under special circumstances at the discretion of the staff. Medical parking permits are issued by Parking Services. Students must present documentation from the treating physician indicating the reason and estimated duration of the condition for which parking is being requested.

Athletic medicine services are provided to intercollegiate athletes at the Towson Center Training Room by a staff of athletic trainers under the supervision of a board-certified orthopedic surgeon.

Speech-Language-Hearing Clinic, Van Bokkelen Hall, Room 001, 410-830-3095. Diagnostic and therapeutic services of the Speech-Language-Hearing Clinic are available, without charge, to all members of the Towson faculty, staff, and student body. Speech, hearing, and language evaluations for all ages and all types of communicative disorders are available. Audiological services include complete hearing testing, hearing aid evaluations, and hearing aid dispensing. Appointments can be made by phoning 410-830-3095.

Therapeutic services are provided for children and adults experiencing difficulty in comprehending and using oral communication. Treatment is provided for the following types of communication disorders: language, articulation, cleft palate, stuttering, hard of hearing, voice, aphasia, laryngectomy, and foreign dialect.

Health Insurance

Dowell Health Center, 410-830-2466

Although the Dowell Health Center offers high quality primary health care to any registered student, regardless of insurance status, there are times when students need medical services not available at the Health Center. For this reason, all students are strongly encouraged to have health insurance coverage. Resident students and intercollegiate athletes are required to have insurance.

The University offers students an excellent 12-month health insurance policy at a very reasonable cost for the coverage. (See the current brochure for up-to-date premium information.) The plan uses the Dowell Health Center as the primary care provider while school is in session and covers services such as specialty referrals, diagnostic tests, surgical procedures, and hospital care not available at the Health Center. It will cover urgent care and emergency services at other facilities when the Health Center is closed or the student is away from school. Coverage for spouses and children of enrolled students is available. Policies can be purchased for the entire year (Aug. 15-Aug. 14) or for second semester only.

Information and enrollment forms will be mailed to all returning students over the summer. New students will be given the brochure and enrollment form in their orientation packet. For additional information, contact the Dowell Health Center at 410-830-2466.

Intercollegiate Athletics

Towson Center, 410-830-2759. Towson University is committed to a growing comprehensive intercollegiate athletic program as an integral part of the student's total educational experience. The program is a member of the National Collegiate Athletic Association's (NCAA) top level--Division I. In addition, TU enjoys membership in the Eastern College Athletic Conference (ECAC), Patriot League (football), East Atlantic Gymnastic League (women's gymnastics), and AMERICA EAST. The Tigers field men's variety teams in baseball, basketball, cross country, football, lacrosse, golf, indoor track, soccer, swimming and diving, tennis, and outdoor track. Women's teams are fielded in basketball, cross country, field hockey, gymnastics, indoor track, lacrosse, soccer, softball, swimming and diving, tennis, outdoor track, and volleyball.

Both the men and women compete for state, regional, and national honors under the guidance of an outstanding coaching staff. The Towson Center complex is the official home of the Tigers and includes

a 5,000 seat arena and 5,000 seat stadium, making it a showcase facility in the metropolitan Baltimore area. The Athletic Department is proud of the fact that its athletes are students first and foremost. This emphasis on academics is evident by the graduation rate of the TU student-athlete population. Historically, the highest number of graduating student athletes receive their degrees from the College of Business and Economics.

Athletic scholarships are available for gifted student athletes in most sports. All students are encouraged to participate according to their interests and abilities. Prospective student athletes interested in competing on a varsity team should contact the head coach of that sport.

Judicial Affairs

Admin. 109, 410-830-2057. When a student is alleged to have violated the Student Code of Conduct (Appendix I) or the Residence/Board Contract, this office interviews and counsels students in the discipline process and facilitates the student appeal process. The office also serves as a resource to faculty and administrators.

Multicultural Student Life

Office of Diversity, University Union 217, 410-830-2051. Towson University is committed to developing an environment which is conducive to the success of the multicultural, multiracial population we serve. To this end, the Office of Diversity works to assure that the needs and concerns of minorities are recognized, responded to, and reflected in academic and social policies and programs. Approximately twelve percent of the student body are classified as minorities. Of those, the largest segment (8%) are African Americans. Students of Asian descent are the fastest growing minority group on campus.

It is the role of the Office of Diversity to advocate on behalf of students of color. Social and educational programming, advising, and financial assistance are offered through OD. In addition, consultation around issues of diversity, differences, and discrimination is available for faculty, students, and staff.

African-American Cultural Center, University Union 317, 410-830-2641. The African-American Cultural Center (AACC), sponsors programs and activities which reflect the life styles, history, and culture of peoples of African descent. The Center also seeks to stimulate scholarship at Towson in the areas of African-American, African-Caribbean, and African studies. The Center sponsors the Towson University Gospel Choir, publishes a newsletter, "Ebony Notes," hosts lectures and discussion groups, provides information and referral, showcases amateur and professional artists, and sponsors the Visiting Lecturers Grant program.

The Center, which houses an ever-growing collection of art, music, and popular and scholarly literature, provides a comfortable setting in which to study, relax, and socialize. Student or staff groups may reserve the Center for meetings and informal gatherings.

The Closet, University Union 217 (Multicultural Student Affairs Office). Located just inside Suite 217 in the University Union is the Closet. This room houses a wealth of information concerning graduate schools, fellowships, scholarships, employment opportunities, and other news relevant to minority students, faculty and staff. The information is updated regularly. Students are invited to stop by often; no appointment is necessary.

Non-Discrimination Policy. Towson University is dedicated to a vigorous intellectual life based on scholarship and learning. A fundamental premise of the academy is respect for each individual's right to participate and learn in a climate free from racism, prejudice and biased practices. Racism and other forms of discrimination may be observed as explicit abuse, threatening or directly harmful actions, or subtle devaluation of an individual based on race, ethnicity, or religion. Such behaviors demean the entire academic community and will not be tolerated by The University.

The University community, faculty, administrators, staff and students are expected to demonstrate respect to **all** of that community's members and to actively facilitate the creation and maintenance of a positive and constructive milieu. For example, it is the responsibility of administrators to formulate and implement fair and effective practices to prevent discrimination and to respond promptly and consistently to complaints. It is the responsibility of faculty to provide a classroom environment which discourages discriminatory behavior and to deal constructively with such behavior should it occur. Evaluations of performance and merit for faculty, staff, and students should not be based on assumptions, expectations or attitudes related to race, ethnicity or religion. Additionally all administrators, faculty and staff are responsible for non-discriminatory behavior in their interpersonal communications with colleagues, staff and students. In all interactions a model of acceptance of cultural diversity should be fostered by the university community, faculty, administrators, staff and students.

Parking Services

University Union 1st Floor, 410-830-2284. Students may park on campus if they are commuters or if they are Sophomore, Junior and Senior resident students. They may purchase their permits by the semester or by the academic year.

Recreational Sports and Fitness Activities

Burdick Hall 150, 410-830-2367. The Recreational Sports Program offers activities ranging from structured competition to impromptu workouts. The program uses the facilities at the Towson Center [handball/racquetball and squash courts (phone 410-830-2370 for court reservations), weight training, tennis and locker rooms] and Burdick Hall (gymnasium for students, weight training equipment, tennis courts, playing fields, locker rooms, and an Olympic size swimming pool). Students, faculty, and staff are encouraged to use the facilities whenever they are not in use for classes or other organized activities. Students are also able to take advantage of the aerobics, step aerobics, fitness assessment, and instructional wellness clinics free of charge. Sport clubs, run by students under faculty guidance, offer students an opportunity to play others from the local area as well as teams from out of state. The clubs, along with the Intramural sports, provide a variety of activities. *Compass*, the student handbook, gives information about the program in more detail.

Religious Activities

University Union 210, 410-830-2268. A staff of people have been assigned by their supporting religious bodies to work with the TU community. Most advise student religious organizations as well as provide a personal ministry in counseling, theological discussions, and other supportive areas. In addition, most cooperate in sponsoring special programs of speakers, discussions, films, contemporary issues studies, and social events.

Residence Life

Newell Hall, Lower Level, 410-830-2516. The residence program provides living facilities for students and promotes educational programs and activities which support the academic mission of the University. The residence staff and the University Residence Government strive to maintain an environment conducive to the individual's achievement of academic goals and development of life skills.

The residence program offers a variety of living options to accommodate the diverse needs and interests of students.

S.A.G.E. (Students Achieve Goals Through Education)

University Union 317, 410-830-3789. The SAGE program is a component of Towson's student retention effort and focuses on increasing the academic and social success of entering black students. Each student is matched with a small group of fellow new students, an upper class "peer mentor," and a faculty or administrator "mentor."

Through these relational experiences, the SAGE program encourages students to achieve optimal academic performance and awareness of campus-wide resources, knowledge of campus activities, and involvement in campus life. The SAGE program sponsors a variety of social activities throughout the year and provides information, academic, advising, and counseling services for students.

Shuttle Bus Service

Towson offers an on-campus shuttle service. The on-campus bus circles the campus, taking students between the classroom buildings and the parking lots.

Student Development

University Union 232, 410-830-3307. Student Development advises the Student Government Association and all campus student organizations as well as Greek, commuter, and non-traditional age students. It also includes Recreational Sports and the Campus Ministries and offers opportunities for student community service. Programs such as a variety of issues for USM and the Commuter Dean's Life reception are offered through Student Development.

Student Government Association

University Union 226, 410-830-2711. The Student Government Association (S.G.A.) recognizes over 100 clubs and organizations. The groups provide students with a variety of opportunities and experiences, including all academic groups, recreational sports (Ice Hockey and Rugby), all Greek organizations, honor socialites, cultural, ethnic and religious groups, and the Debate Team. S.G.A. is the advocate of students, providing educational activities, social awareness and entertainment.

Clubs and Organizations. A complete listing of the S.G.A. clubs and organizations appears annual in *Compass*, the student handbook. The list includes political, cultural, environmental, social, religious, ethnic, and professional groups. Students may obtain *Compass* at Triad or from the Orientation Department.

University Union

The University Union is the hub for co-curricular activities and programs and a multitude of student services. Educational, cultural, and social programs hosted in the Union are designed to appeal to the entire academic community. The Union is a place where commuters, resident students, faculty, staff, or alumni can relax, interact, and share common experiences.

First floor: a full-service post office, the University Store, the Recreation Center, Bowling Center, the Loch Raven Room (fast food and snacks), the I.D. Services Office, Parking Services Office, Ticket Office, the Cash Office and Auxiliary Services Administration.

Second floor: Information Desk, a mall-style eatery, a more formal cafeteria and Sweet Sensations (yogurt, fresh baked cookies and muffins), SGA office suite, Student Activities Board, Office of Student Development (including Greek and Commuter Affairs), Black Student Union, Religious Activities Office, Career Services Center, Office of Religious Activities Office, Career Services Center, Office of Diversity, Potomac Lounge (fireside lounge and study area), Art Gallery, Event & Conference Services (room reservations, and Union Office suite).

Third floor: Towerlight, African-American Cultural Center, SAGE program, a variety of large and small conference rooms, and several comfortable nooks and crannies for contemplation or conversation.

Post Office, University Union Ground Floor, 410-830-2260. Located on the ground floor of the University Union, the Post Office provides window service from 9:00 a.m. until 4:00 p.m. Monday through Friday. Resident students have their mailboxes at the Post Office, so they should make it a habit to stop by often. New resident students need to visit the Post Office soon after they move in to receive their box numbers and combinations.

Ticket Office, University Union Ground Floor, 410-830-2244. The Ticket Office provides the university community with a variety of tickets for both on-campus and area events. Student-sponsored activity tickets, Student Activities Board and Student Government Association-sponsored events are sold through the Ticket Office located on the first floor of the Union. The Ticket Office is also an outlet for Ticketmaster, selling tickets for events including those held at the Baltimore Arena and the U.S. Air Arena.

University Store, University Union Ground Floor 410-830-2323. The University Store supplies all required and recommended textbooks as well as a selection of general reading materials including reference/study aids, current fiction and non-fiction works, children's books, and magazines. Other available products include basic school/beauty aids, snacks, gifts, and greeting cards. Specialty TU emblematic merchandise such as glassware, stationery, and imprinted adult and children's apparel distinguish the University Store from other general retail outlets. The approved Towson University class ring is also available through the University Store. The store accepts personal checks accompanied by appropriate identification and the TUniversal card as the key to a debit account. MasterCard and Visa cards are also accepted.

Women's Center Media Center, 410-830-2666. The Women's Center is located on the third floor of the Media Center and consists of a lounge, browsing library, and office. The drop-in lounge is available to all for study, conversation, or a moment of relaxation.

A wide ranging referral system offers information about campus and community groups and organizations, individuals with skills and expertise in specific areas, and individual professionals in the fields of medicine, law, mental health, etc. The center provides a bulletin board where job notices, conferences, and newsletters terse relating to women from all over the country are posted.

Throughout the academic year a variety of programs will be offered free of charge to the public.

The Center serves as an advocate and liaison for women students, staff and faculty.

SPECIALIZED SERVICES

Office for Students with Disabilities, Dowell Hall, Second level, 410-830-2638 (Voice or TDD). Towson University is in full compliance with section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. All university programs and activities are accessible to individuals with disabilities. Students with disabilities should register with Office for Students with Disabilities immediately after admission to ensure the timely provision of the required support services. Accommodations are provided according to individual need. Services include readers, writers, interpreters, notetakers, arrangements to help remove or circumvent architectural, social, or procedural barriers, and information on special equipment available at TU.

International Students

The International Student & Scholar Office, 7800 York Road, Suite 407, 410-830-2421, www.towson.edu/ISSO

The International Student & Scholar Office (ISSO) provides services and programs to international students and to international scholars (researchers, guests, and visiting faculty). The ISSO offers assistance in the following areas:

- visa applications and immigration related matters
- cross-cultural orientation and adjustment
- mediation of cross-cultural misunderstanding
- success in the U.S. academic environment
- understanding and following University regulations
- using University services
- complying with federal law concerning temporary-visa holders

- referrals to community resources
- requests from the community for contact with TU's international population
- emergency situations involving international students.

Staff in the ISSO are authorized by the U.S. Immigration & Naturalization Service (INS) and the U.S. Information Agency to endorse visa application certificates, travel documents, and INS documents related to employment. ISSO staff assist students with their visa applications and requests to the INS. Advisors provide information sessions, publications, and individual appointments to keep students up-to-date and in compliance with current immigration law. These services are provided before students leave their home countries, upon arrival, and throughout their stay in the United States.

At the beginning of each semester, the ISSO holds a two-day orientation program designed to assist students in their initial adjustment to a new culture by:

- describing the typical difficulties of cross-cultural adjustment (including culture shock),
- suggesting strategies for successful adjustment and effective intercultural communication,
- offering information about the University and the community,
- introducing key University service-providing offices,
- answering questions about settling into accommodations,
- suggesting preparations for success in the new academic environment,
- helping in the transition through the creation of a support network,
- offering opportunities to build friendships in the first week on campus.

Throughout the students' stay at TU, the ISSO provides on-going advising, services, and programs. Students may schedule advising appointments regarding immigration, personal, cross-cultural, and academic concerns. From the ISSO students obtain travel document endorsements; letters to verify immigration status, enrollment, and educational expenses; application materials, counseling, INS forms, and authorizations for employment or change of immigration status. Each spring tax advising programs are organized to educate students about their U.S. tax liabilities. The ISSO provides information about and referrals to international health insurance plans, as well as general information about obtaining U.S. permanent residency. The ISSO publishes a newsletter about four times a year, to communicate immigration law information, recreational opportunities, and other news for or about the international population on campus.

A number of educational, cultural, and social activities are planned by the ISSO to foster interaction and improved appreciation among national/cultural groups and the Americans on campus. The ISSO advises the student-led International Club, working with them each year to plan an International Festival and other culture-sharing programs.

Towson University offers an International House as an option in the residence halls. It is a residence which brings together American and international students of various national backgrounds to develop heightened awareness and understanding of the global community. Interacting on a daily basis with fellow students from different ethnic, religious, and cultural heritages often fosters rewarding friendships and connections for the International House residents. Over 100 students are currently participating in this residence option.

For further information about these services and programs, contact the International Student and Scholar Office at 410-830.2421. ISSO is in Suite 407 of 7800 York Road.

English Language Center, Media Center 201, 410-830-2552. The English Language Center offers intensive English instruction for students who are preparing for admission to the university. Classes are offered in listening/speaking, reading, writing, grammar, and TOEFL preparation. The Center is also open to students who are not preparing

for university study; however, the course objectives remain academically oriented.

English as a Second Language. The English as a Second Language (ESL) Testing Coordinator tests and places all non-native speakers of English admitted to the University in preparatory college writing courses. When necessary, students are placed in one of three ESOL classes or special sections of college writing. **ESL Testing Coordinator, English Language Center, Media Center 201, 410-830-2552. ESOL Faculty Advisor, English Department, Linthicum Hall 218H, 410-830-2944.**

Students With Children

Student Day Care Center, Lida Lee Tall, 410-830-2652. The Student Day Care Center was established by and continues to be assisted financially by the Student Government Association. The Center provides developmental programming as well as good care for children ages 2, 3, 4, 5. The Center is open in conjunction with the University's Academic Calendar from 7:30 a.m. to 5:30 p.m. and offers its children opportunities for physical, emotional, and cognitive growth.

Due to licensing restrictions, space is limited. Submit a formal application to the Center as soon as possible. The Center accepts children on a first-come first-served basis, giving priority to the children of full-time University students. Call the Center at 410-830-2652 for further information/clarification.

Veterans

Veterans' Affairs, Administration Bldg., Room 126, 410-830-3094.

The office provides coordination between veteran/dependent students and the Baltimore regional office of the Department of Veterans' Affairs. The coordinator establishes procedures and prepares forms and correspondence for eligible students to receive educational benefits. Additionally, the officer monitors class attendance and evaluates academic progress to ensure that those receiving benefits maintain satisfactory progress. This officer also supervises the employment of VA work/study students.

Students taking courses at other institutions concurrently with courses at Towson University may be certified for both institutions by the TU coordinator.

Students may visit the office daily from 8:30- a.m. to 4:00 p.m. but may wish to call for an appointment.

The normal time for processing an enrollment certification is six weeks. Certification is not automatic. The proper VA forms must be completed each semester.

Withdrawals

When students must decrease credit load during the course of the semester, they must notify the TU Office of Veterans' Affairs. Failure to do so could result in termination of benefits and a financial debt to the U.S. Department of Veterans' Affairs.

FX Grades

The student who receives an "FX" at the end of a term should contact the office immediately. Failure to do so will result in a substantial financial debt to the U.S. Department of Veterans' Affairs.

Change of Program

Veterans may change their academic program once without VA clearance. For more than one change of program, however, the veteran is required to undergo VA counseling. A change of program with the VA is required whenever a veteran makes a curriculum change in which any of the courses for which VA benefits were previously received do not transfer into the new program or whenever the student declares a new major or matriculates at a different institution.

Independent Study

Payment for independent study courses will generally be made on a tuition and fees basis only. Monthly rates may be paid for such courses,

provided that more than half of the total number of credits for that semester are in courses requiring class attendance. Check with the office to determine eligibility to pay for independent study courses.

Advance Payment

The advance payment consists of the allowance for the remaining portion of the initial enrollment month plus the full allowance for the next month. All tuition and fees are due according to regular university deadlines and cannot be deferred pending receipt of the advanced payment. The advance pay can be applied for only if the student will be enrolling at the university on at least a half-time basis and meets the established deadlines. Additionally, there must be one full calendar month break between semesters to qualify for the advance.

Students may request advance pay for the regular academic semesters by making an appointment with a VA administrator to sign various federal forms. *These forms will not be mailed to students and must be signed at least six weeks prior to the beginning of the semester.*

Approved Program

The VA will pay the veteran only for the courses listed in the *University Catalog* that are required for a degree. If students take courses in addition to those listed for their curriculum, they will not be entitled to receive VA benefits for them.

Academic Resources

Towson offers its students many opportunities to enhance their lives with academic support and extracurricular activities. Some of these programs will help students with their studies, while others will provide cultural enrichment.

In this section:

- Advising
- Computing Services
- Fine Arts
 - Art Galleries
 - Dance
 - Film
 - Music
 - Theater
- International Education Office
- Internship/Cooperative Education
- Library Services
- Non-Degree Student Assistance
- Study and Learning Support
 - Learning Center
 - Tutorial Services Center
 - Writing Lab

ADVISING

Towson University is committed to providing comprehensive advising designed to enrich the educational experiences of every student. Accordingly, students are encouraged to seek advising at any time during the academic year. As a minimum, the university requires that each student discuss his or her academic progress and goals with a faculty member each semester prior to registration. Students who have chosen a major must go to the appropriate academic department office to complete a "Declaration of Major" form. While there, they will be assigned to faculty advisors.

University Academic Advising Center, Lecture Hall, 410-830-2472. The University Academic Advising Center supports the advising needs of the university's students and faculty. This Center serves as a clearinghouse for information about the university's policies, procedures, and requirements. Its advisors help students review their progress toward the fulfillment of requirements, GenEd's (or GUR's for students who matriculated prior to Fall '96), and advises students about developing academic goals, planning programs, selecting courses, investigating majors and minors, clarifying catalogue year choices, and meeting standards. Students who have completed 75 credit hours receive an audit of their progress toward graduation. In addition, the Center advisors conduct special advising for students who have received academic warnings or who are on academic probation, process withdrawals and medical leaves from the university and advise students whose health necessitates a reduced course load. Students who have questions or concerns prior to meeting with their faculty advisor can meet with trained peers through the Student Academic Advising Program, Lecture Hall 7-B, 410-830-3497.

Students who have not chosen a major are assigned to faculty advisors. Students may identify their faculty advisors through the Academic Advising Center.

COMPUTER SERVICE

Cook Library, Ground Floor, 410-830-3916

Computer support for instruction and research is provided by the Computing and Network Services Department. The Department operates open laboratories for use by faculty and students which provide on-line terminals and printers; a graphic workstation and X-terminal; a demonstration classroom; a networked pc lab; various other microcomputers and printers; and video viewers. Special equipment

has been installed to assist students with disabilities. Software available on the networked microcomputers consists of WordPerfect, Lotus, DBase, Saber Menuing, HTML Assistant, Netscape and Windows for Workgroups software. Selected software programs are available for the stand alone microcomputer. Additional terminals are distributed in satellite centers in Smith, Stephens, Psychology, Linthicum and Hawkins Halls, with additional units provided by instructional departments for classroom and laboratory use.

The computer facility is a VAXcluster consisting of a DEC VAX 4000 Model 300 and a DEC VAX 6410 utilizing the VMS operating system. Operating independently of the VAXcluster, but networked with it, is a DECSystem 5000 Model 200. The RISC architecture of the DECSystem affords the faculty and students the capability of working with state-of-the-art technology. The DECSystem 5000/200 uses the ULTRIX operating system. Currently, new Silicon Graphics Incorporated (SGI) equipment is being installed as the Computing Center begins a migration to the UNIX operating system.

Networking, which is also the responsibility of Academic Computing, is provided by a fiber-optic data communications network which networks most academic and some administrative buildings to the computer facility. Future expansion will include the student residence halls, which are being wired as part of a network expansion project. The data communications network also provides access to the international BITNET and Internet networks. BITNET gateways provide access to other major networks, such as CSnet and EARN (Europe) and other international networks. Access is also provided to the University System of Maryland network.

Available VAX software includes ADA, DECwindows, 20/20, KERMIT, LINDO, MINITAB, Rdb, SAS, SSPSSX, SPSSX-GGRAPHICS, SYMPAP, WordPerfect, and XMODEN, as well as many programming languages and various instructional packages.

FINE ARTS

Towson University, a center for the Fine and Performing Arts in the Baltimore area, offers students a host of programs and concerts, many free of charge. In addition, Towson is home to the Maryland Arts Festival, an array of live theater, concerts, films, lectures and musicals, celebrating its 16th season in the summer of 1997.

Art Galleries

Asian Arts and Culture Center, Fine Arts 236, 410-830-2807. The Asian Arts and Culture Center is a key resource for students and faculty in such fields as Art History, Asian Studies, Music, Philosophy and Theatre. The Center regularly hosts exhibitions, lectures/workshops, films and concerts, featuring nationally and internationally renowned speakers, artists and performers. In addition to covering the spectrum of Asian art, the Center also proudly serves as a social and cultural link between metropolitan area Asian communities and the University.

As a museum, the Center houses and displays many of the University's most significant and valuable pieces of art in the relaxed and tasteful surroundings of the Roberts Gallery. The Roberts Gallery, however, is more than just a showcase for the visual, esthetic, and cultural values of Asian art. It is a highly visible symbol of the University's commitment to the arts and to its goals of developing and nurturing multicultural awareness in an academic setting.

Holtzman Art Gallery, Fine Arts Lobby, University Union Art Gallery, Union 2nd Floor. Both galleries present a variety of exhibits to the Towson community. Student and faculty shows join those that travel nationally and internationally, presenting many different media to the viewing public. The Holtzman Gallery emphasizes contemporary art, while the Union Gallery focuses on M.F.A. thesis exhibitions and those by local artists.

Leiberman Collection, Honors College, Lecture Hall. The Liebermans donated art in memory of their sons. The Leiberman Room provides students in the Honors College a peaceful place to study, sit, or reflect.

Dance

TU Dance Company: The student company has traveled as far as Russia, where they danced to great acclaim, and as near as Baltimore. They supplement their public concerts with a series of educational programs for local school children.

Film

Films of all sorts are shown on Towson's campus, from those of interest to certain majors (Anthroflix), to those shown for certain courses (History of Film). The SGA presents a weekly series of recently released box office hits at student-discount prices.

Music

The University boasts ensemble groups of many instruments and types of music. Concerts are held throughout the year and are supplemented by student and faculty recitals. Many are free of charge; others offer discounts to students and faculty.

Theatre

From Stephens Hall's large proscenium stage to the Fine Arts Building's open-space studio theatre, Towson presents many productions each year. These range from mime to Shakespeare to children's theatre and feature Towson theatre majors, and talented students from other disciplines. Prices vary, but students pay a discounted price.

THE INTERNATIONAL EDUCATION OFFICE

Administration Building, Room 322, Tel: 410-830-2919, 410-830-3828, Fax: (410) 339-7151 <http://www.towson.edu/~hawk/intleduc/intledu.html>

The International Education Office is the central university office for supervision and coordination of international education programs and activities. The office oversees faculty and student exchange programs with foreign institutions. It seeks to promote better understanding of international and cross-cultural issues in the University and the external community, including schools, businesses, local government and the University System of Maryland, in regard to international education.

In its commitment to internationalization, the International Education Office offers a variety of services to international students and scholars, to the University and to the community. It also provides consultation and referral support to other academic departments, local government offices and businesses. The International Education Office is headed by the Associate Vice President for International Education, who reports to the Provost.

There are two major components to International Education at Towson University: the Study Abroad Office and the International Student and Scholar Office.

LIBRARY/MEDIA SERVICES

Albert S. Cook Library

The Albert S. Cook Library, located near the center of the campus, is an open stack library with a seating capacity of 1,259. It serves as the hub of information resources for the university. The collection of approximately 700,000 book and non-book items and over 2,000 periodicals has been selected to support the curriculum. The library is a depository for U.S. Government and Maryland State documents and has collections of textbooks and curriculum guides for elementary and secondary education, a collection of educational resource documents (ERIC microfiche), a collection of early English literature, a strong women's studies collection and a microfilm set of early American periodicals. These materials are accessed through an integrated online catalog which includes not only the holdings of Towson but also the resources of the other libraries in the University System of Maryland. A cooperative borrowing and delivery agreement with the other USM libraries exists to help share library materials. Other bibliographic computer networks provide access to state and national databases. Among the facilities in the library are individual carrels for quiet study. There are also microfilm readers and printers.

Reference Department services include group and individual instruction in finding materials for class assignments and use of the various tools to enable students to locate, evaluate, and effectively use information for any need.

The Media Resource Services Department provides audiovisual equipment circulation for the campus and access to the film, video, laserdisc and multimedia CD-ROM collections in Rm. 202. The University's collection of over 4,300 media titles is accessed through the library's online catalog for use in class and student assignments. The collection contains commercial and locally produced 16mm films, video programs, classic works, recorded satellite resources and video conferences for use within the Media Viewing Lab. The lab area provides a quiet area with multiple stations where students can complete viewing assignments or use material placed on faculty reserve.

NON-DEGREE STUDENT ASSISTANCE

The Office for Non-Traditional Undergraduate Programs offers assistance to non-degree students enrolling for courses. The office is located in Room 223 of the Administration Building 410-830-2471 or 410-830-2022.

STUDENT AND LEARNING SUPPORT

Learning Center, Hawkins Hall 101-103, 410-830-2643

The Center facilitates active learning in reading and related study skills for all students, but particularly for those registered in the Development Reading program. It also provides assistance in reading and spelling. Informational sessions for the National Teacher Examinations are also conducted through the Center.

Tutorial Services Center, Cook Library 424, 410-830-2291

Students can achieve outstanding academic performance when they apply themselves. The course instructor is the primary resource available to a student when course content questions arise. The Tutorial Services Center serves as a secondary resource. The Center provides individual and/or group tutoring, free of charge, for students enrolled in many lower-division and a limited number of upper-division courses. Tutorial services depend upon the availability of a qualified tutor. Students are accommodated on a first-come, first-served basis and are usually scheduled for one, possibly two hours of tutoring each week (per course).

The Tutorial Services Center also provides supplemental computer-assisted instruction in accounting and study skills. LASSI, a learning and study strategies inventory, allows students to evaluate their study habits and attitudes in several areas (Motivation, anxiety, attitude, information processing, selecting main ideas, test taking). Enrichment strategies are recommended after completing LASSI.

Additional academic resources include:

- The Biology Tutoring Service
- The Chemistry Tutoring Service
- The Computer Science Tutoring Service
- The Mathematics Tutoring Service
- The Modern Languages Tutoring Service
- The Music Lab Tutoring Service
- The Physics Tutoring Service

The Writing Lab, Lida Lee Tall 308, 410-830-3426. Students who feel uncomfortable with their writing, have trouble figuring out what their professor wants, or would simply like to discuss their writing with a peer, may visit the Writing Lab, which offers experienced help in a relaxed, informal setting.

Undergraduate Admissions

Administration Building, Second Floor, 410-830-2113 (Local number)

Fax 410-830-3030

1-888-4TOWSON (toll-free in continental U.S.). TU Home Page address: <http://www.towson.edu>

Hours: Monday through Friday 8:30 a.m. to 5:00 p.m.

Saturday 9:00 a.m. to 12 Noon (by appointment only)

Angel D. Jackson, Director

Jeffrey M. Haas, Associate Director/International Student Recruitment

Louise Shulak, Associate Director

Markiesha Wilson, Associate Director

C. Trent Owings, Senior Assistant Director

Melanie Fresh, Assistant Director/International Student Recruitment

Mark Jacque, Assistant Director

D. Kenneth Mangum, Assistant Director

Jennifer Pawlo, Assistant Director

Donald L. Reed, Assistant Director

Stanton Cheah, Admissions Counselor/International Student Recruitment

Types of Undergraduate Admission

Freshman

Transfer Students

International Students

Non-Traditional Students

Mature Adults

Veterans

G.E.D. Recipients

WHEN TO APPLY

Freshman: 1st semester of senior year of high school for the fall semester.

Transfer Students: By December 1st for the spring semester; by May 1st for the fall semester.

International Students: By November 15th for the spring semester; by June 1st for fall semester.

Non-traditional Students: By November 15th for the spring semester; by May 1st for the fall semester.

Admission to Towson University is granted to applicants whose academic and personal qualifications give promise of academic success. The university reserves the right to close admissions when no space remains available.

Students seeking freshman admission for the fall should file applications during the first semester of the senior year of high school.

Students seeking transfer admission should file as early as October 1 for the fall semesters. The deadline for the receipt of applications and credentials is December 1 for the spring semester and May 1 for the fall. Applicants who would like to be considered for an academic scholarship should submit an application, high school transcript and SAT results no later than December 1. Applicants for spring admission must have all application materials, including supportive qualifying transcripts in official form, in the Admissions Office by December 1st.

Any application received after the priority deadline is processed provided space remains available in the entering class. Students who fail to enroll for at least one course during the semester for which they have been admitted as a degree candidate will have the offer of admission revoked because of non-matriculation. To enroll as a degree candidate for any subsequent semester, students must reapply and submit new application materials and pay all appropriate fees.

Persons who have been denied admission to Towson University will not be permitted to attend as non-degree students. They may, however, transfer to the university if they meet transfer admission requirements after attending another college or university. Persons who have graduated from high school within the last two (2) years must formally apply for admission in order to attend the University.

ADMISSIONS PROCEDURE

1. An applicant for full-time day admissions may receive application materials from the guidance office of the secondary school, the counseling office of the junior/community college, or from the admissions office of the university.

2. The applicant should complete Form I and return it to the Admissions Office with an application fee of \$30 (check or money order). The application fee is neither deferrable nor refundable. Each applicant is responsible for the Admissions Office's receipt of his or her official high school transcript, including mid-year and final grades with verification of graduation, as each becomes available, and a completed transcript supplement (application Form II/Guidance Counselor's Recommendation). The transfer applicant should arrange to forward official transcripts of all college work attempted or completed, whether or not credit was earned, from all institutions attended.

3. The standardized test required for admission is the Scholastic Assessment Test of the College Entrance Examination Board. All freshman applicants and transfer students with fewer than 30 transferable college-level credit hours must arrange to have the results of this test sent to the Director of Admissions. Students should take the test sent to the Director of Admissions. Students should take the test in the junior/senior year of high school. Towson University's College Board identification code number is 5404. ACT results may be substituted for SAT scores.

4. Incomplete applications are canceled. Approved applications which remain incomplete for lack of final high school or college transcripts are subject to revocation. The applications of admitted students who do not enroll for the given semester are canceled.

5. All entering degree-seeking students born after December 31, 1956, including new graduate students and transfers, will be required to demonstrate physician-documented proof of immunity to the following diseases: Diphtheria-Pertussis-Tetanus, Polio, Measles, Mumps, and Rubella.

An immunization record form will be sent to every admitted student. The completed form, signed by a physician, must be returned to the Dowell Health Center by the time of Orientation and registration. Students who fail to return the form or to correct any inadequacies in immune status in a timely fashion will be blocked from the following spring semester registration. (For those students entering in the spring semester, non-compliance will result in blocked registration for the following fall semester.) The block will be lifted by the Health Center as soon as the requirements are filled.

The specific vaccine requirements are listed on the immunization record form. The student is responsible for obtaining any immunizations needed to satisfy University requirements from their regular source of medical care prior to arriving on campus.

ADMISSIONS POLICY

A complete statement of the admissions policy is presented as Appendix C. Applicants should thoroughly review Appendix C in addition to the information presented below.

GUIDELINES FOR FRESHMAN ADMISSION

Applicants for Fall 1997 admission will be evaluated according to the following guidelines:

Beginning October 1, the University will admit freshman applicants whose secondary school records indicate "B" level work (3.0 or above grade point average on a 4 point scale) in academic courses (English, Math, Modern Languages, Science and Social Science only) from grades 9-11. These applicants must also possess a minimum 1100 combined SAT. Applicants with lower grade point averages and test scores will be considered after mid-year senior grades are available on a space available basis, with priority given to those with the strongest overall profile. Admission will not be offered to students with grade point averages lower than 2.5 and less than 480 verbal or 440 math SAT without special exception.

For Spring 1997 admission, first-time freshman applicants with no previous college attendance will also be admitted to the university based on the guidelines as described above. These applications will be considered on a space available basis. Applications and all supportive documentation must be received in official form by December 1.

Freshman candidates will be expected to have completed four (Carnegie) units of English (including one each of composition, English literature, and American literature), three units of social sciences, two units of lab science, three units of mathematics (Algebra I, Algebra II, and Geometry), two units of a Foreign Language and six (6) elective units. Any applicant whose high school transcript does not include this combination of curriculum requirements may be admitted with the understanding that select deficiencies be completed during the first semester of the freshman year at Towson. Students who are admitted under this condition and who fail to complete the stipulated courses with the first semester will have their degree candidacy withdrawn. High school level mathematics courses taken at Towson will not carry graduation credit. Students will receive graduation credit for courses taken to resolve other curriculum deficiencies because regular college level courses will be taken to satisfy these deficiencies. Most of the courses used to resolve curriculum deficiencies are offered during daytime hours only.

GUIDELINES FOR TRANSFER ADMISSION

To be considered for transfer, a student must have completed a minimum of 30 semester hours of transferable college-level work and be in good academic standing; this cannot include, remedial or preparatory courses or non-traditional course work, such as Credit for Prior Experience/Learning, Military Science, the College Level Examination Program (CLEP), DANTES, USAFI, ACE evaluations, etc. Students with fewer than 30 transferable semester hours must comply with the requirements for incoming freshmen and possess the minimum transfer GPA.

The requirements for transfer admission vary, depending on the total number of transferable credit hours completed and the combined GPA from all institutions attended.

GPA	Transfer Credits
2.5+ & High School Eligibility	1-29
2.00	30-90

Upon official acceptance to the University, a student must maintain the established cumulative GPA required for admission (inclusive of current course work) and remain in good academic standing; otherwise, the University's offer of admission will be withdrawn.

Admissions priority will be granted to graduates of Maryland community colleges and to those Maryland community college students who have earned at least 56 transferable credit hours.

Any transfer applicant who has attended Towson as a non-degree student must possess at least a 2.00 grade point average for all course work attempted through the University, even if the applicant is admissible based on course work subsequently completed at other institutions. Students who apply for transfer admission based on their non-degree status must meet the admissions requirements listed above.

Waiting List

Applicants who are currently enrolled in coursework which may qualify them for admission will have their application reviewed after official transcripts, including grades for that work, are received. Such students are encouraged to make alternative plans for admission to other colleges in the event that the University is not able to extend an offer of admission due to lack of space at the end of that particular semester. The availability of financial aid and on-campus housing may be severely limited at this time.

The university may *not* consider summer school course work for qualifying purposes if it is not completed prior to registration for new students. Additionally, the Admissions Office will not wait-list

students for the Spring semester; those applicants must possess qualifying credentials prior to the December 1st deadline in order to be considered for Spring enrollment.

TRANSFER POLICY

(also see the "Academic Regulation" section and Appendix D of this catalog.)

1. Transfer of course credit.

The Admissions Office at Towson University assists transfer students with a variety of services, from personal interviews to the ARTSYS computer network. These services are designed to guide students in judicious course selections while still at their transfer institutions. Through a well planned selection of courses prior to transfer, students can often complete some major requirements and some of TU General Education requirements (GenEd) upon official matriculation.

Transfer course work is evaluated by the Admissions Office in a form known as the Evaluation of Transfer Credit. Transfer credit will be allowed for most academic courses completed at any regionally accredited two- or four-year college or university; this credit will transfer into TU as either GenEd or free Elective Potential Major credit. Some restrictions do apply, however: courses that are not parallel or discipline compatible with TU courses may not transfer; development remedial, personal development, college orientation, technical occupational, and selected business courses do not transfer; finally, any course equivalent to TU--ENGL 102 (Writing for a Liberal Education) with a grade of "D" does not transfer.

2. Maximum number of transfer credits accepted.

The maximum number of credits allowed in transfer from a two-year institution (community/junior college) is 64 (sixty-four). The maximum number of credits allowed in transfer from a four-year institution or from a combination of two-(64 max) and four-year institution is ninety (90). The standard measure of credit at TU is the semester hour; quarter hour credits are converted into semester hours by a two-thirds ratio.

3. Maximum number of credits allowed for non-traditional learning.

CLEP credit is selectively transferred. Credit will be awarded for the general exam if the following minimum scores are earned:

Humanities	480
Math	450
Natural Sciences	450
Social Sciences & History	450

A maximum of 24 credits (6 credits for each successfully completed section) will be awarded in transfer. Credit for subject CLEP tests are evaluated after admission by the Office for Non-Traditional Undergraduate Programs.

AP credit is usually awarded on the basis of scores of 3 or above, with a score of 3 often requiring a review of the test booklet. A detailed description of Advanced Placement credit follows under the appropriate heading. There is no limit to the number of credits that can be earned through AP.

In order for any CLEP or AP credit to be reviewed and/or awarded, the student must provide the Admissions Office with an official report from Educational Testing Service.

Credit for military training is reviewed and awarded or denied by the Office for Non-Traditional Undergraduate Programs after the student has attended TU for one semester as a degree candidate with a 2.00 cumulative GPA and has submitted all of the necessary official military documents to the Office for Non-Traditional Undergraduate Programs.

4. Minimum number of credits required through classroom instruction in the major field and for the degree.

Towson University requires that students earn a minimum of 120 credits for a degree. Of these 120 credits, 32 must be upper-level, that is, junior/senior (300-400) level courses. Students must complete a minimum of 30 credits in residence at TU; at least 15

credits must be completed in degree candidate status.

The number of credits required for the completion of a single major at TU varies from 30 to over 70 credits, depending on the intended major.

Grades of "D" will transfer into the university as GenEd/elective credit, with the exception of grades of "D" in any courses equivalent to TU ENGL 102 (Writing for a Liberal Education); these courses *will not transfer*. Grades of "D" *will not* qualify for major credit.

5. Transfer of General Education Requirement (GenEd):

Transfer students who have satisfied the GenEd requirements at a Maryland public post-secondary institution will only be required to complete 10-16 additional semester hours of general education and specific courses required of all students at TU, with the total number of GenEd credits not to exceed 46 semester hours. (For information regarding specific General Education requirements refer to "General Education Requirements" under the University Curriculum section of this Catalog.)

6. Transferability of credit for non-traditional learning.

Source	Accept Credit yes	Elective or Required	Grades/ Scores evaluated individually by the Office for Non- Traditional Undergraduate Programs
ACT PEP			
Advanced Placement Program (CEEB)	yes	elective & required	usually 3 or higher
CLEP	yes	elective & required	see Transfer Policy item 3 above and Section on Credit for Prior Learning under "University Curriculum"
DANTES	no		
Departmental Exams from other Colleges	yes	elective & required	passing grade; minimum grade of "C" in College's composition courses
Military Credit (ACE Guide to the Evaluation of Educational Experiences in the Armed Services)	yes	elective & required	evaluated individually by the Office for Non-Traditional Undergraduate Programs
Nursing School	no		
Non-Collegiate Work accredited by ACE (e.g. PONSI)			evaluated individually by the Office for Non-Traditional Undergraduate Programs
Portfolio Credits from other Colleges	yes	elective & required	passing grade; minimum grade of "C" in composition courses
High School Articulation (college courses at high school)	yes	elective & required	passing grade; minimum grade of "C" in composition courses

Evaluation of Transfer Credits

The letter of admission for a transfer applicant includes the estimated number of credits transferable to Towson. Once the student accepts the university's offer of admission (by returning the Enrollment Contract and fee), he or she will receive an official evaluation of transferable credits from the Admissions Office. This evaluation is usually (but not always) preliminary in nature, as the student is usually taking additional courses at the time of admission. A final evaluation of credit will be prepared once the final grades for the most current semester are received in official transcript form from the student's former college or university. All final transcripts are due in the Admissions Office prior to the students' *orientation date*. The appropriate cumulative average, as determined by the number of credits completed, and good academic standing must be maintained, however, or the university's offer of admission will be withdrawn. See guidelines for Transfer Admission Policy for the appropriate cumulative grade point average necessary for maintaining admission eligibility. Failure to meet this requirement will result in the cancellation of the university's original offer of admission and in the forfeiture of all related fees and privileges. Additionally, failure to forward an official, final transcript before enrollment at the university or the first day of class will prohibit future registration and the release of official TU transcripts.

Upon receipt of a final evaluation, the transfer student should review its contents carefully. If the student has any questions or feels there is an error, the Admissions Office *must be advised within 30 days*. In no case will changes, additions, or corrections be made to the evaluation after the student has completed the first semester in residence at Towson University.

Transfer students are subject to the GenEd and major requirements that are currently in effect for the class (that is, the catalog year) in which they are admitted. These students have the option, however, of following the GenEd and major requirements that were in effect at the time they were initially admitted as degree candidates at their original institution, provided that continuous enrollment has been maintained. Continuous enrollment has been defined as: must be, or have been, enrolled at a Maryland public institution of higher education; must have had no more than two sequential years of non-enrollment; and must complete the baccalaureate degree in no more than ten years from their initial enrollment as a degree-seeking student at a Maryland public institution of higher education. Students who have not completed graduation requirements within the 10-year statute of limitations should meet with an academic adviser to determine the most appropriate set of requirements. If a change of catalogs is desired, the student should inform the Admissions Office in a separate written request (prior to the completion of their first semester at TU).

Maryland Community College transfer students whose first attendance at any institution of higher education occurred in the fall of 1990 or later will fall under the guidelines set forth by the Maryland Higher Education Commission on March 21, 1990. (See Appendix D for details.)

COMPETENCY REQUIREMENTS FOR ENTERING STUDENTS

The Office of Remediation Assessment administers the competency testing and developmental studies programs. These programs require that all entering students demonstrate competence in the basic skills of reading, writing, and mathematics. Competence in the basic skills is initially assessed by performance on the Diagnostic Placement Tests.

All matriculating freshmen and all transfer students with fewer than 30 credits will be administered diagnostic placement tests.* Students not attaining the required minimum scores on the standardized tests will be enrolled in developmental studies courses in the basic skills. These courses will not count toward the 120 credits required for graduation. Students must complete these courses with grades of "S" or "C" or higher and achieve the university's minimum proficiency level by the end of their third regular semester in order to continue

attending the institution as degree candidates. *Students who do not achieve minimum proficiency by the end of the third regular semester or who fail to achieve a grade of "S" or "C" or higher will have their degree candidacy withdrawn.*

In addition, students who fail to successfully complete developmental course(s) on the third attempt may no longer attend the university in pursuit of a degree.

*The following students are exempt from the competency testing program:

1. Transfer students with 30 or more transfer credits.
2. a. administered from April 1995 to the present (exempt from the reading and writing tests), and/or
 - b. Freshmen with SAT math scores of 470 or above on SAT administered prior to April 1995, or 500 or above on SAT administered from April 1995 to the present (exempt from the math tests).

INTERNATIONAL STUDENT APPLICATION

Requests for information or admission materials should be made far enough in advance to allow processing before deadline dates set by the University.

International applicants who are accepted for admission usually begin studies in the Fall semester (early September) or the Spring semester (late January). Applicants who are admitted for the Fall semester may begin course work during the Summer (June) sessions. The deadline for submitting an application and all documentation is June 1 for the Fall semester and December 1 for the Spring semester. Early application is strongly recommended.

Applicants who have been accepted for admission will receive the Certificate of Eligibility (Form I-20). This document is used to apply for a student (F-1) visa at an American embassy or consulate overseas. It is also used for transferring from one institution in the United States to another. F-1 students are required to enroll as full-time degree candidates (minimum 12 semester-hour credits).

The following application procedure should be followed:

1. Obtain an international student admissions packet.
Address: International Student Admissions Office
Towson University
8000 York Rd.
Towson, MD 21252
Telephone: 410-830-2114
2. To be considered for admission, applicants are required to complete the official undergraduate application. A nonrefundable \$30 application fee (personal check or money order drafted in U.S. dollars) must accompany all applications.
3. A Social Security number is required. If the applicant is in the United States and does not have a number, (s)he must obtain one before filing an application. If overseas, the applicant will be assigned a temporary number by the University when the application is received.
4. All applicants must complete an admissions file, including:
 - a. official or notarized secondary school academic records, showing grades received, annual mark sheets, examination certificates, and leaving certificate, as they apply to the educational system in the student's home country. Records must be received for each of the last three years of secondary school;
 - b. official or notarized record (transcripts) of all colleges, universities, post-secondary, or professional schools attended;
 - c. a notarized English translation of all documents. Translations must be as literal as possible with no attempt to translate information into the United States system of education. To evaluate post-secondary course work, it is sometimes necessary for the University to use a professional evaluation service at the applicant's expense (approximately \$125 U.S. dollars). The University will notify the applicant if this service is required;
 - d. an official Test of English as a Foreign Language (TOEFL) result. All international students who do not speak English as their native language are required to take the TOEFL examination. A minimum score of 500 is required. TOEFL examination dates and information may be obtained through the American Embassy.

Consulate or U.S.I.A. office or by writing TOEFL/TSE Services, Box 6151, Princeton, New Jersey 08561-6151, U.S.A. The results will be reported to Towson if Towson University is indicated on the TOEFL application. The TU code number is 5404.

- e. an official Scholastic Aptitude Test (SAT) result. Applicants who have not completed one full year of post-secondary school course work (30 United States semester-hour credits) must submit SAT results. SAT examination dates and information may be obtained by writing College Board SAT Program, P.O. Box 6200, Princeton, NJ 08541-6200, U.S.A. The results will be reported to Towson if Towson University is indicated on the SAT application. The TU code number is 5404.
- f. financial certification. Applicants are required to provide official financial statements verifying that \$19,000 is available annually to cover their tuition and living expenses. Acceptable methods of financial verification are described in the international student admissions packet.
5. International students will be required to pay out-of-state tuition.
6. Applicants who hold permanent resident or parole visa status must list their alien registration number in the space indicated on the undergraduate application. They are processed for fee purposes as State residents if they have established legal domicile in Maryland for one year. Presentation of an applicant's alien registration card for verification may be requested. Foreign academic records submitted for evaluation must be translated into English and notarized. An application and all documentation must be submitted by December 1 for the Spring semester or June 1 for the Fall semester. If a permanent resident does not speak English as his or her native language and has resided in the United States less than five years, a TOEFL examination is required.
7. Puerto Rican applicants who are U.S. citizens are processed for fee purposes as out-of-state applicants, unless they have established legal domicile in Maryland. If the academic background is Puerto Rican, the applicant must submit SAT and TOEFL results.
8. All non-native speakers of English admitted to the University are required to take Towson's English placement test to determine if preparatory college writing courses are needed.
9. Applicants holding other types of visas may also apply to the university and should contact the International Admissions Office for admissions information.

SPECIAL ADMISSIONS PROGRAMS

Early Admission

Early admission enables a limited number of students to be admitted and to matriculate immediately following the completion of their junior year in high school. Students interested in early admission should apply through the normal application process. Their applications, however, must be accompanied by a letter of recommendation from either the high school counselor or principal. Additionally, a letter of recommendation from the student's parent(s) should be included. An official high school transcript should be submitted along with the results of the SAT. An interview with the Director of Admissions is also suggested.

On Campus Interviews

Personal interviews are not required and are not used as a criterion for admission. Prospective students may request an interview to discuss questions or concerns they may have about Towson. Students are encouraged to call three weeks in advance of their visit to schedule an appointment with an admissions counselor.

Open House

Each fall, the admissions staff, faculty, administrative personnel, and students host a series of open house programs which offer the visitor an opportunity to take a tour of the campus, and discuss their academic, extracurricular, residential or financial aid concerns. Reservations are required in advance and may be secured by calling the Admissions Office.

NON-TRADITIONAL ADMISSIONS POLICIES

Mature Adults, Veterans, and G.E.D. Recipients

Some high school graduates may qualify for special admissions consideration under the provisions of non-traditional admissions. In order to be considered under this policy, students must be classified into one of the categories described below. Once classified as a non-traditional applicant, the prospective student must apply and submit all credentials no later than November 15th for the spring semester and no later than May 1st for the fall. Admission will be based upon basic skills testing in several areas: writing, reading, mathematics, etc. Such students can be admitted into degree candidacy only if their test results indicate no more than one developmental placement. Students are eligible for only one test session each semester, and are encouraged to submit their applications as early as possible to ensure adequate processing time for the evaluation of the placement tests. In addition, it should be understood that referrals for such testing cannot be made until a formal application is filed, completed with all appropriate academic credentials in transcript form.

Mature Adults: For admission purposes, a mature adult may be defined as one who has not been regularly enrolled in an education institution for a period of three (3) years or more prior to his or her date of entry into the university.

Veterans: For admission purposes, a veteran may be defined as a current or former member of any branch of the U.S. Army Services with twelve months (one year) or more of active duty served, and with no intervening college or university attendance since discharge from the service. In addition to the application form and academic credentials, veterans must also provide the Admissions Office and the Office of Veteran Affairs with a copy of the DD form 214 verifying military service.

G.E.D. Recipient: For admission purposes, the high school equivalence (General Education Development) examination standards established by the Maryland State Department of Education (or other similar agencies in other states) shall be used as an alternative to high school graduation. Unless accompanied by acceptable SAT results and a partial high school transcript with which to render an admission decision, a G.E.D. recipient will be referred for placement testing before an admissions decision is tendered.

Advanced Placement and Credit for Entering Students

Freshmen who have had the opportunity for advanced-level work and would like academic credit as well as advanced placement are encouraged to take the Advanced Placement Tests of the College Entrance Examination Board in May of their senior year of secondary school. Arrangements to take the tests are made through the high school counselor or the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540. The results of these tests are received by the university in mid-July. The following standards are used for determining advanced placement credit:

ADVANCED PLACEMENT

Examination	A.P. Score	Policy
American History	1, 2	No credit
	3	Review of test booklet determines if credit can be awarded.
	4, 5	6 credits, HIST 145-146
Art History	All	No credit
Art Studio: Drawing	All	No credit
Art Studio: General	All	No credit
Biology	1	No credit
	2	4 credits, BIOL 110
	3, 4, 5	8 credits, BIOL 201-202
Chemistry	1, 2	No credit
	3	Placement into CHEM 102. Upon completion of CHEM 102 with "C" or better, 4 credits will be awarded for CHEM 101.
	4, 5	8 credits for CHEM 101-102

26 Undergraduate Admissions

Computer Science	1, 2	No credit
	3	Exempt from COSC 165 -- placement into COSC 236
	4, 5	Exempt from COSC 165 and COSC 236 -- placement into COSC 237. Upon completion of COSC 237 with "C" or better, 7 credits will be awarded for COSC 165, 236.
Economics		
Microeconomics	1, 2	No credit
	3, 4, 5	3 credits for ECON 201
Macroeconomics	1, 2	No credit
	3, 4, 5	3 credits for ECON 202
English Lit Comp or English Lang. Comp	1, 2	No credit
	3	Review essay booklet
	4, 5	3 credits, ENGL 102
European History	1, 2	No credit
	3	Review essay booklet
	4, 5	3 credits, HIST 242
French Language	1, 2	No credit
		15 credits, FREN 101-301
	4, 5	18 credits, FREN 101-302
French Literature	All	No credit
German Language	1, 2	No credit
	3	15 credits, GERM 101-301
	4, 5	18 credits, GERM 101-302
German Literature	All	No credit
Latin: Vergil	All	No credit
Latin: Cat-Horace	All	No credit
Mathematics		
Calculus AB	1, 2	No credit
	3, 4, 5	Placement in MATH 274. Upon completion of course with "C" or better, 4 credits will be awarded for MATH 273.
Mathematics		
Calculus BC	1, 2	No credit
	3, 4, 5	Placement in MATH 373. Upon completion of course with "C" or better, 8 credits will be awarded for MATH 273-274.
Music Listening	1, 2	No credit
Non-Majors	3, 4, 5	3 credits, MUSC 101
Majors	3, 4	No credit
Majors	5	6 credits, MUSC 101-102
Music Theory	All	No credit
Physics B	1, 2	No credit
	3, 4, 5	8 credits, PHYS 211-212
Physics C Mechanics or Elec/Magnetism	1, 2	No credit
	3, 4, 5	Review essay booklet
Psychology	1, 2	No credit
	3, 4, 5	3 credits, PSYC 101
Spanish Language	1, 2	No credit
	3	15 credits, SPAN 101-301
	4, 5	18 credits, SPAN 101-302
Spanish Literature	All	No credit
United States	1, 2	No credit
Government and Politics	3, 4, 5	Upon completion of an upper level POSC course with a grade of "C" or better, 3 credits will be awarded for POSC 103.

A bulletin of information about Advanced Placement Tests may be secured from the College Entrance Examination Board, P.O. Box 592, Princeton, NJ 08540.



Prior to the change of schedule period, students are notified about advanced placement and credit. Additional information may be obtained by contacting the Director of Admissions or the appropriate departmental chair.

Housing & Residence Life

7720 York Rd., 410-830-2516

Director: Jerry Dieringer

RESIDENCE SERVICES

The residence life program provides living facilities for full-time degree candidates and promotes educational programs and activities which support the university's academic mission. The residence life staff and the University Residence Government strive to maintain an environment that encourages academic excellence, community responsibility, and individual development.

Residence services at Towson University provide on-campus housing for approximately 3,300 students.

- Resident students must sign a contact for university housing, renewable at the option of the university, and must carry a minimum of twelve credits.
- Residents must vacate after they complete their final semester examination.
- Residence facilities are available to students only when classes are in session. There are special interest programs which are opened year round.
- Students are not permitted to remain in residence more than 48 hours after ceasing to attend classes.

RESIDENCE HALLS

RESIDENCE TOWER--A 13-story residence hall houses 453 students. It includes lounge areas, classroom space, conference rooms and recreation areas.

NEWELL HALL--The first residence hall built on the university campus. it houses 220 students and has been renovated to provided double-loaded corridors and small lounges, bathrooms and student bedrooms.

RICHMOND HALL--The second building erected for student housing, it houses 122 students in facilities similar to those of the adjacent Newell Hall.

WARD AND WEST HALLS--Built in 1951, these twin residence halls are located on the northern perimeter of the campus. The halls house both men and women, and each accommodates about 57 students.

PRETTYMAN AND SCARBOROUGH HALLS--Built around a court garden, these twin residence halls, completed in 1956 and 1964, provide rooms for 164 students each.

GLEN RESIDENCE COMPLEX--Four residence towers and dining facility accommodate 1,684 students. Each tower houses approximately 400 students in a suite design, i.e., two double rooms with a connecting bath.

TOWSON RUN APARTMENT COMPLEX--One, two, and four bedroom apartments are available to upperclass students who have successfully completed 45 or more credits. The fully-furnished apartments accommodate 2, 4, or 8 persons and can be available to graduate and non-traditional age students. In addition to double bedrooms, each apartment has a full kitchen and living/dining room.

ALTERNATIVE HOUSING

THE BURKSHIRE AT TOWSON UNIVERSITY--the newest housing facility, adjacent to campus, is a 17-story apartment building to accommodate faculty, staff and qualifying students. The one- and two-bedroom units contain wall-to-wall carpeting, washer and dryer, all modern kitchen appliances and are cable TV accessible. Most apartments have a den and balcony or terrace.

Expenses

PLEASE NOTE: Expenses are estimates at the time of printing this *Catalog* and are subject to revision. Tuition, housing and boarding costs and other fees are subject to change at any time by action of the Board of Regents.

TUITION

The University System of Maryland Tuition Policy, approved by the Board of Regents on June 11, 1993, establishes *non-resident tuition* at the calculated actual educational cost at each institution within the System and based the increase in the non-resident tuition and fees on that cost. Additionally, the policy recommends each institution to provide a four-year plan of tuition and fees for both resident and non-Maryland resident students. The two charges--Maryland resident and non-Maryland resident--shown below provide the approved rates for Fall 1997 and projections for Fall 1998 through Fall 2000.

MARYLAND RESIDENTS				
	Approved	Projected		
Tuition and Mandatory Fees	Fall 1997	Fall 1998	Fall 1999	Fall 2000
Full-Time Undergraduate (12 credits or greater)				
Tuition	\$1540			
Mandatory Fees	\$ 520			
Total	\$2060/sem	\$2210/sem	\$2371/sem	\$2544/sem
Part-time Undergraduate (Less than 12 credits)				
Tuition	\$ 134			
Mandatory Fees	\$ 35			
Total	\$ 169/cr	\$182/cr	\$ 196/cr	\$ 210/cr
Graduate				
Tuition	\$ 174			
Mandatory Fees	\$ 36			
Total	\$ 210/cr	\$ 226/cr	\$ 243/cr	\$ 261/cr

NON-MARYLAND RESIDENTS				
	Approved	Projected		
Tuition and Mandatory Fees	Fall 1997	Fall 1998	Fall 1999	Fall 2000
Full-Time Undergraduate (12 credits or greater)				
Tuition	\$ 4079			
Mandatory Fees	\$ 520			
Total	\$ 4599/sem	\$4966/sem	\$5322/sem	\$5701/sem
Part-time Undergraduate (Less than 12 credits)				
Tuition	\$ 300			
Mandatory Fees	\$ 35			
Total	\$ 335/cr	\$ 360/cr	\$ 386/cr	\$ 414/cr
Graduate				
Tuition	\$ 340			
Mandatory Fees	\$ 36			
Total	\$ 376/cr	\$ 403/cr	\$ 432/cr	\$ 463/cr

PLEASE NOTE: The tuition and fee increases for the next three years are based on FALL 1996 rates. *They do not include increases related to inflation and other cost factors not known at this time.*

The tuition policy is available for review in the following offices:

- All Student Departments
- Bursar's Office
- Extended Studies Office
- English Language Center
- Graduate Office
- International Student Office
- Registrar's Office

UNIVERSITY FEES

A comprehensive fee is charged each student each semester. This fee varies based on a student's tuition classification as indicated on the above charts. The fee supports student activities, athletics, university funded construction, and transportation.

*A \$20 overload surcharge fee will be assessed per credit hour for any credits over 15 per semester.

RESIDENCE FEES

Depending upon the room and dining plan selected, students living on campus may pay approximately \$2,500 per semester for room, and dining plan. Students living off-campus may purchase a commuter diner's plan (5 meals per week \$450) or the resident diner's plan which guarantees at least ten meals per week (\$960-\$1,125).

As residence space becomes available, those students who are eligible may choose a room or apartment in one of the resident complexes. For those students who enter the residence program after the beginning of a semester, the charge will be prorated for the remainder of the semester plus one week. (For exact rates, contact the Resident Office.)

*Prices subject to change.

OTHER FEES AND EXPENSES

Students are expected to buy the textbooks for their courses, which may be purchased in the University Store.

A \$75 late fee is assessed any student whose bill is received for processing after published deadlines. *Received for processing* is defined as the Bursar's having received THE BOTTOM PORTION of the billing statement with payment or verification of funds to cover all charges--again, these must be received by the published deadline. A late registration fee of \$75 is charged to any student who does not register as scheduled.

Students enrolled for practice teaching (student teaching) or a clinical practicum are charged a fee ranging from \$125 to \$300 per experience. Students must confer with their department chair or with the director of student teaching to determine the exact fee.

Students enrolled for private music lessons are charged a fee of \$85 or \$245 per credit depending upon course registration.

All students are required to register their automobiles with the university in order to obtain a parking permit. This permit does not guarantee a space on campus but is necessary in order to park on campus. The cost of these permits is:

Summer '97	\$20.00
Annual '97-'98	\$90.00
Fall '97/Minimester '98	\$55.00
Spring '98/Summer '98	\$55.00

TUITION AND FEES PER SEMESTER

Registration	Residence Status	Tuition*	University Fee	Surcharge Overload Fee**
Undergraduate				
less than 12 crs.	In State	\$ 134/cr.	\$ 33/cr.	
less than 12 crs.	Out of State	\$ 300/cr.	\$ 33/cr.	
Undergraduate				
12 or more crs.	In State	\$1,540 flat	\$520 flat	\$20/cr.
12 or more crs.	Out of State	\$4,079 flat	\$520 flat	\$20/cr.
Graduate				
	In State	\$ 174/CR.	\$ 36/CR.	
	Out of State	\$ 340/cr.	\$ 36/cr.	

*Refer to Appendix E of the current *University Catalog* for tuition residency qualifications.

**An overload surcharge fee assessed per credit hour for credits over 15.

GRADUATE CHARGES

Graduate Student Taking a Mix of Undergraduate and Graduate Courses: TU Senior Taking a Graduate Course (with Special Permission):

If a graduate student takes a mix of graduate and undergraduate courses and the undergraduate credit-hour load is less than 12 credits, the individual is to be billed per credit-hour in each category and part-time university fees. If the undergraduate credit hour load is 12 or more credits, the flat undergraduate tuition rate and full-time university fees are to be billed with the graduate credit hours billed at the per credit hour graduate tuition rate.

Graduate Student Taking All Undergraduate Courses:

If the credit hour load of undergraduate courses is 12 or more, full time, the individual is to be billed the flat undergraduate tuition and the flat full time university fees.

INSURANCE PLAN

A sickness and accident insurance plan designed especially for the students of Towson University is offered at a nominal fee. While this plan is voluntary, some basic medical coverage is required of all students who live on campus as well as students who participate in any physical education class or extracurricular athletics. Proof of sufficient coverage must be submitted to the residence Department. Billing statements will not reflect the cost of the insurance. Enrollment is handled directly through the insurance company. Should a student withdraw from the university, coverage will remain intact for the policy year. Any questions regarding coverage should be directed to the Counseling Center, Glen Esk, 410-830-2512 (See Insurance under Student Life Section.)

PAYMENT OF FEES

All checks or money orders should be made payable to Towson University for the exact amount of the charges. The student's name and social security number must appear on all checks submitted to the university. The University does offer a payment plan administered through Academic Management Services (AMS). The AMS payment plan extends to students a monthly budget plan for meeting expenses. Students who choose such a payment plan may arrange payment through AMS, 1-800-635-0120. AMS is not, however, affiliated with the University and does not act as the University's agent; accordingly, the University bears no responsibility for the acts or omissions of AMS. Moreover, a student's liability for tuition and fees is not discharged until payment is made in full. The *Discover*, *MasterCard* and *Visa* credit cards can be used for tuition, fees, room dining plan, and other charges. *It is imperative that students adhere to processing deadlines. Whether a student needs to make a payment or not, the bottom portion of the billing statement MUST be returned to the Bursar's Office (AD329) by the scheduled processing date, or cancellation of the student's schedule will occur. Bills must be processed through the Bursar's Office for a student to be officially*

registered; The University does not assure a student is planning to attend if he or she has not paid the bill. **WARNING:** Processing of financial billing statements is the responsibility of the student and is due to the University each semester as outlined in the course catalog. Non-delivery of the billing statement **does not** absolve you from the payment or late payment assessments. When a check given in payment of fees, fines, or services is returned unpaid by the bank for any reason, a penalty fee of \$50.00 is charged. Failure to reimburse the university for an uncollectable check may result in class schedules being voided.

Financial policy set by the Board of Regents and supported by the legislative auditors of the State of Maryland states that *all previous balances must be paid prior to registration for the following academic semester*. The university employs a "first in first out" technique when applying payments to accounts. Therefore, payments are used to satisfy the oldest outstanding charge prior to applying any portion of a payment to current or more recent charges. Should the account of any subject become delinquent and sent to the Central Collection Unit of the State of Maryland, it is deemed delinquent, a collection fee not to exceed 20% will be charged to the student. In accordance with COMAR with Title 17, Subtitle 01, Chapter 02, Section 01 through 05, the Central Collection Unit of the State of Maryland will report debt to a credit bureau and begin intercepting Maryland Income Tax Refunds of individuals indebted to the State Colleges and Universities for Tuition, Fees, and Other Costs. Students with outstanding balances should contact the Bursar's Office. Transcript and diploma requests will not be honored if a student has a financial obligation to the university. Payments made by check will be subjected to a waiting period of ten to thirty working days prior to transcripts or diplomas being released.

PLEASE NOTE: The University does retroactively bill when coding errors are identified.

ADVANCE PAYMENTS

Each applicant must pay a non-refundable application fee of \$30.00. No application will be processed without this fee or a valid waiver.

Once the student is admitted, a non-refundable \$200.00 enrollment fee must be forwarded to the Admissions Office to reserve a place in the class.

A \$25 fee must accompany every application for on-campus residence. This fee is non-refundable.

Upon notification from the Residence Office that dormitory space is available, students must make a \$200.00 non-refundable room reservation deposit. Failure to pay all charges by the published processing deadline will result in cancellation of schedule and forfeiture of residence hall space.

REFUND POLICIES

A student withdrawing from the University must complete an official withdrawal form from University Academic Advising Center, Lecture Hall, before he or she is entitled to any refund. The date of withdrawal will be the date on which written notice of withdrawal is received.

For additional information regarding withdrawal, see the "Academic Regulations" section of this *Catalog*.

Fall/Spring Withdrawal Refund Policy

Notification to the instructor does not constitute proper withdrawal. The date on which written notice of withdrawal is received determines the percentage of refund. All refund percentages are based on the official start of the semester. The timing for effecting refunds shall be as follows:

1. Through the end of each change of schedule period, 100% of tuition and fees shall be refunded the student.
2. Beginning with the 9th calendar day through the 21st calendar day after the official start of the semester, 50% of *tuition only* shall be refunded the student *who fully withdraws from the University*.
3. Beginning with the 22nd day calendar day after the official start of the semester, no tuition and fees shall be refunded the student.

NOTES: Based on documentation of extraordinary circumstances, including medical, exceptions may be made to this policy. Requests for exemptions due to extraordinary circumstances should be submitted immediately; however, *no requests will be considered 30 days beyond the session in question*. Undergraduate students should contact the Advising Center; and graduate students should contact the College of Graduate and Extended Education.

Any unpaid charges on a student's financial account with the University will be subtracted from the refund due prior to processing the refund request. All questions regarding fees and tuition should be referred to the Bursar's Office, Admin. Rm 326, 410-830-2100 or 1-888-5BURSAR.

Second 7-Week Fall/Spring Withdrawal Refund Policy

Notification to the instructor does not constitute proper withdrawal. The date on which written notice of withdrawal is received determines the percentage of refund. All refund percentages are based on the official start of the session.

Students are considered full-time for credit hour load of 12 credits or greater; therefore, refunds apply only to credit hour load under 12. The timing for effecting refunds shall be as follows:

1. Through the first day of classes after the official start of the second 7-week session, 100% tuition and fees shall be refunded the student.
2. During the second and third days of classes after the official start of the second 7-week sessions, 50% of *tuition only* shall be refunded the student.
3. Beginning the fourth day of classes after the official start of the second 7-week session, no refund shall be issued.

NOTES: Based on documentation of extraordinary circumstances, including medical, exceptions may be made to this policy. Requests for exemptions due to extraordinary circumstances should be submitted immediately; however, *no requests will be considered 30 days beyond the session in question*. Undergraduate students should contact the Advising Center; and graduate students should contact the College of Graduate and Extended Education.

Any unpaid charges on a student's financial account with the University will be subtracted from the refund due prior to processing the refund request. All questions regarding fees and tuition should be referred to the Bursar's Office, Admin. Rm 326, 410-830-2100 or 1-888-5BURSAR.

Fees

The following fees are non-refundable:

1. Late Registration fee/Late Payment fee
2. Note processing fee
3. Room deposit fee
4. Enrollment contract fee
5. Applicable fee

The following fees are non-refundable after the official start of classes for the semester:

1. Room Rent fee
2. Applied fee (Private instruction, student teaching, clinical practicum, etc.)
3. Auto Registration fee

The Board Plan Fee is pro-rated weekly.

The following fees are non-refundable after the official change of schedule period:

1. University fees
2. Surcharge/Overload fee

Financial Aid

Student financial aid at the University consists of grants, loans, and employment. These programs are funded by the U.S. Department of Education, the State of Maryland and the University. The objective of these programs is to assist students to meet their educational costs by helping to finance the difference between the cost of education and the Expected Family Contribution (EFC):

$$\begin{array}{r} \text{Cost of Education} \\ - \text{Expected Family Contribution (EFC)} \\ \hline \text{-Outside Resources (state/private scholarships, etc.)} \\ \hline \text{Need for Title IV and University Funds} \end{array}$$

The cost of education includes tuition and fees and room and board as well as indirect costs such as transportation and personal expenses. The estimated costs of undergraduate education for the 1997-1998 academic year are:

	COMMUTER	RESIDENT	OUT-OF-STATE
Tuition/Fees	\$4,120	\$4,120	\$9,198
Room/Board	2,970	4,830	4,830
Books	730	730	730
Transportation	500	500	500
Personal	820	150	1,690
Total	\$9,140	\$11,680	\$16,948

The (EFC) is calculated by the U.S. Department of Education using a statutory formula from the information supplied by the student and family on the *Free Application for Federal Student Aid (FAFSA)*. The EFC formula considers such factors as income and assets, family size and number of family members in college.

STUDENT ELIGIBILITY

A student's eligibility for aid depends on:

1. Financial need
2. Degree candidacy or formal admission as a **regular student** making satisfactory academic progress toward a degree or certificate
3. U.S. citizenship or eligible non-citizen status
4. Possession of a valid Social Security Number
5. Certification that the applicant is not in default on a student loan and does not owe a repayment of a federal Title IV grant
6. Registration for Selective Service

DEADLINES AND APPLICATION PROCEDURES

Limited funds are available for most programs. It is recommended that students apply for aid as soon as possible after January 1 of each year. The *Free Application for Federal Student Aid (FAFSA)* should be mailed by January 30 in order to meet the University's deadline of March 1. Students must reapply for student financial aid each year. Current aid recipients will be sent renewal applications from the U.S. Department of Education. Those who do not receive renewal applications may obtain new *FAFSA* forms from the University's Financial Aid Office, from a high school guidance office, or from a public library. **Students must list Towson University (code # 002099) in Section H of the FAFSA to have the U.S. Department of Education release application information to the University's Financial Aid Office.** Students will receive a Student Aid Report (SAR) about six weeks after mailing the *FAFSA* to the U.S. Department of Education. The University Financial Aid Office will receive the same information electronically if Towson is listed as a recipient of the information.

Grant funds are limited and are offered to the earliest applicants who demonstrate the greatest financial need. Applications are considered complete and ready for evaluation after a determination that students

meet the criterion listed in the *Student Eligibility* section and after any additional documentation requested by the Financial Aid Office has been received.

Applications may be selected for verification by the U.S. Department of Education or by the University. If selected, parents and students must provide signed copies of Federal Income Tax returns and other documentation to verify information such as value of assets, household size, number in college, etc. Failure to complete the verification process will result in cancellation of the application, and any aid that may have been offered.

The Financial Aid Office will continue to process applications after the March 1 deadline, but late applications cannot be considered for limited campus-based grant and loan funds.

IMPORTANT: Aid May Change

Federal Title IV regulations do not permit students to receive aid in excess of the cost of education. The University may revise or cancel any student financial aid package if:

- additional aid is received from an outside source (such as state or private scholarship).
- corrected FAFSA information is received.
- enrollment status changes during the year.

CAMPUS-BASED AID

Campus-based refers to financial aid programs for which the University receives a limited amount of money each year. Eligibility for aid from these programs depends upon financial need and availability of funds when applications are processed.

Federal Supplemental Educational Opportunity Grant (SEOG)

This Federal Title IV grant is for exceptionally needy students pursuing first bachelor's degrees. The University may offer up to \$2,000 to an eligible applicant.

Diversity Grant

This grant is designed to promote cultural diversity at the University. It is offered to first bachelor's degree candidates who are U.S. citizens and who have exceptional financial need. Recipients are selected to receive up to \$2,000 using a variety of weighted factors that include such things as dependency status, expected family contribution, and whether applicants are members of certain minority groups at the University.

Achievement Grant

This grant may be offered beginning with the 1997-98 academic year to incoming freshman. Selection of recipients to receive up to \$2,000 will be made using criteria including need and academic achievement.

Institutional Grant

This University grant of up to \$2,000 may be offered to first bachelor's degree candidates who are prior recipients of the grant and who show need.

Federal Perkins Loan

This long term, low interest Federal Title IV loan may be offered to first and second bachelor's degree candidates (maximum of \$3,000 per year, up to a total of \$15,000) or graduate students (maximum of \$5,000 per year, up to a total of \$30,000). The annual interest of 5% does not begin to accrue, and no payment of principal is due, until nine months after the borrower leaves school or drops below half-time attendance. Payments are based on the total amount borrowed, but may not be less than \$40 per month, plus interest.

Priority is given to first bachelor's degree candidates.

Federal Work Study

This Federal Title IV program allows first and second bachelor's degree students and graduate students to work and earn money to help

pay for educational expenses. A maximum dollar earnings eligibility may be offered as part of a financial aid package. This eligibility is the maximum that a recipient may earn and will not be used to offset direct University charges such as tuition. Instead, it is received in bi-weekly pay checks.

Jobs are available on and off campus. Students are encouraged to consider off campus jobs in community service organizations. The University's Office of Human Resources maintains a list of available Work Study positions.

DIRECT FEDERAL AID

Federal Pell Grant

This Federal Title IV grant is for first undergraduate bachelor's degree candidates whose applications show exceptional financial need.

Federal Direct Student Loan Program

These long term loans may be offered to first and second bachelor's degree students, as well as certificate and graduate students. The application requirements for these loans are the same as for other federal grant and loan programs. Borrowers must carry at least six credit hours per semester. Depending on the amount needed, an interest subsidized loan, an unsubsidized loan, or both subsidized and unsubsidized loans may be offered.

All borrowers will be charged a loan origination fee of 4% by the U.S. Department of Education. This fee is deducted from the loan proceeds.

No interest accrues subsidized loans and no principal will be due until the end of a six month grace period that begins when the borrower graduates, withdraws, or drops below enrollment for at least six credit hours. An unsubsidized loan accrues interest during enrollment and during the six month grace period. The interest rate for Direct Loans is a variable rate which is capped at 8.25%.

The annual loan limits are: freshmen, \$2,625; sophomores, \$3,500; juniors and seniors, \$5,500; and graduate students pursuing graduate level course work: \$8,500. Students who meet the federal Title IV definition of self supporting may borrow additional unsubsidized loans of up to \$4,000 for freshman and sophomore standing and up to \$5,000 for junior and senior standing. Graduate students may borrow up to \$10,000 in additional unsubsidized loan funds. No student may borrow more than the cost of education, less other aid received.

Aggregate loan limits are \$46,000 for undergraduate borrowing, of which no more than \$23,000 may be in subsidized loans, and \$138,500 for graduate students, including any undergraduate loans.

All new borrowers must attend an entrance loan counseling session, and all borrowers who graduate or leave school must attend an exit loan counseling session.

Federal Direct Parent Loans for Undergraduate Students (PLUS)

Parents of dependent students may borrow up to the cost of education minus all other aid received. No evaluation of family income is used to determine eligibility, but the U.S. Department of Education will approve the loan only after an evaluation of the borrower's credit history. The interest begins to accrue when the loan is disbursed, at a variable annual rate capped at 9%. All borrowers are charged a loan origination fee of 4% by the U.S. Department of Education. This fee is deducted from the loan proceeds.

STATE GRANTS AND SCHOLARSHIPS

Each year the State of Maryland awards grants and scholarships based on financial need or merit, or a combination of both. Recipients must be permanent residents of Maryland. To apply, students must use the (FAFSA) or the Renewal Application. The deadline is March 1. For more information about these scholarships, call (410) 974-5370.

ADDITIONAL INFORMATION

Transfer Students

Campus-based financial aid may not be transferred from one school to another. Eligibility for the Federal Pell Grant, and some state grants and scholarships may be transferred. **Transfer students must request previous aid transcripts from the Financial Aid Office of every school attended after high school.**

Academic Dismissal/Suspension

Students who are academically dismissed or suspended are not be entitled to any financial aid. They must be formally readmitted to the University as a degree candidates before being reconsidered for any financial aid.

Disbursement Procedures

Generally, one half of financial aid funds (except Federal Work Study) is disbursed each semester. The funds are credited toward semester charges for tuition and fees and other direct University charges. Any credit balance after all charges have been deducted will be disbursed as a check no earlier than ten days prior to the first day of classes each semester. Students who receive a late or adjusted aid package will not receive checks until at least three weeks after a credit balance is created.

Disbursement of Federal Direct Student Loan funds to new freshman borrowers will be made after the borrower has been enrolled for 30 days.

REFUND POLICY

Title IV student financial aid of students withdrawing during a semester must be partially or fully refunded to the federal programs, depending on the last date of attendance. The amount that is returned is calculated using the University's refund policy (shown in the "Expense" section of the catalog) and a statutory federal refund policy:

1. for students who withdraw on the first day of classes of a period of enrollment, the school will refund not less than 100% of institutional charges, less an administrative fee;
2. at any time after the first day of classes, up to and including the end of the first 10% (in time) of the period of enrollment, the school will refund at least 90% of institutional charges, less an administrative fee;
3. at any time after the end of the first 10% (in time) of the period of enrollment, up to and including the end of the first 25% (in time) of that period of enrollment, the school will refund at least 50% of institutional charges, less an administrative fee; and
4. at any time after the end of the first 25% (in time) of the period of enrollment, up to and including the end of the first 50% (in time) of that period of enrollment, the school will refund at least 25% of institutional charges, less an administrative fee.

Students who officially withdraw on or before the 60% point in time of their first semester of enrollment at the University, will also have a *pro rata* refund calculated. The *pro rata* refund may be not less than an amount of University charges equal to the portion of the period of enrollment that remains on the date the student withdraws, less any unpaid amount owed the University. The result of the *pro rata* refund will be compared to the other refund calculations and the larger amount returned to the financial aid programs.

Unpaid University charges at the time of withdrawal, that is, charges not paid by financial aid or the student, will be unaffected by the refund calculations.

Scholarships Information

Enrollment Comm., 7800 York Rd., 1st Floor, (410) 830-2654

Coordinators: Lisa Harrison, Pat Schultz

This office serves as the clearinghouse for information about Towson University's student scholarships and awards *not* administered by the Financial Aid Office and characterized by criteria such as academic excellence and special merit in related fields of study. Selection is made regardless of race, sex, national origin, religion, age, marital status and condition of handicap. These scholarships are available to U.S. citizens or U.S. nationals. All scholarships and awards, unless noted in Criteria, are awarded to full-time degree candidates. To keep the scholarship the candidates must continue to be full-time candidates. These guidelines are in compliance with Federal and State regulations, unless other specific scholarship criteria is stated by a private funding source.

PRIVATE SCHOLARSHIPS

Recipients of *private scholarships*, from outside organizations, should contact the Bursar's Office for processing instructions. Scholarships must be processed according to criteria established by the donor and/or Towson University. Any outstanding balance created by the student's or donor's failure to provide the university with adequate, timely information becomes a financial obligation to the student.

ARMY AND AIR FORCE ROTC SCHOLARSHIPS

For information, please refer to the description of "Military Science Programs" in the "University Curriculum" section of this *Catalog*.

These endowed scholarships are currently accumulating funds in order to be awarded in the future:

- Alumni Memorial Scholarship Fund
- The Anderson/Parente Scholarship Endowment
- Joseph Ardolino Scholarship Endowment
- Sam Barone Scholarship Fund
- Marie Faraino Biegun and Paul C. Biegun Scholarship
- Biology Scholarship Endowment
- Catherine Britt Memorial Scholarship
- The Gilbert A. Brungardt Music Scholarship
- Jacob Epstein Education Endowment
- The W. Frank Guess Scholarship Endowment
- Joseph Keimig Business/Economics Scholarship
- Laura Lamb Memorial Scholarship Endowment
- Dr. John W. McCleary Endowment Scholarship Fund
- Dr. Donald I. Minnegan Scholarship Endowment
- Physics Scholarship
- The Ronald and Linda Rasper Scholarship Endowment
- Evelyn Pearl Reed Scholarship Endowment
- James R. Saxon Memorial Scholarship
- Mary Scarborough-Carr Scholarship Endowment
- Rosario Serio and Giovanni Faraino Scholarship
- The Hoke L. Smith Endowment
- Joseph C. Tischer, '59 Fund
- Ben Swensen Memorial Scholarship
- TU Retired Faculty Scholarship Endowment
- The Ann L. Wagner Mathematics Fund

For more information regarding donating to an existing scholarship fund, or establishing a scholarship, call the Development Office at (410) 830-3375.

Scholarship Program Directors have the authority to change deadline date, amount, and contact people based on fund availability and applicant pool. Scholarship information listed in this publication as scholarship deadline date, amount, and contact people is subject to change.



SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
ADMISSIONS The Commonwealth Award	10 awards full tuition and fees. Application deadline December 1 for receipt of application, transcripts and SAT results	CRITERIA Attend Baltimore City Public School, designation as a Commonwealth or Commonwealth Plus Student, minimum 2.75 cumulative GPA. Must apply as a full-time applicant directly from High School. Primary consideration given to students with highest academic background, and earliest full time application. CONTACT Ms. Markiesha Wilson (410) 830-2113	Presidential (Cont.)		Awarded for four years (two for transfers) if student maintains 3.25 cumulative GPA each semester and full-time status at this university. Recipients will be asked to render special services to the university community. Awards made on the basis of admissions material. CONTACT Ms. Angel Jackson (410) 830-2113 or toll free in continental U.S. 1-888-4TOWSON
Helen Aletta Linthicum Scholarships	\$1,000 up to five (5) recipients each year. Application deadline: December 1 for receipt of application, transcripts and SAT results	CRITERIA Awarded to select valedictorians from Maryland's high schools; Presidential, University, and Provost scholars are excluded from consideration. Scholarship recipients will be chosen by the Admissions Office based on academic credentials and other materials. Award is a non-renewable scholarship and can only be applied against Freshman year education expenses at the University. Recipients must enroll on full-time basis once selected for this scholarship CONTACT Admissions Office (410) 830-2113 or 1-888-4TOWSON	Honors College Scholarship	Annual campus housing. December 1 for receipt of application, transcripts and SAT results	A supplementary award for select Presidential Schools chosen by the Honors College Selection Committee.
Cultural Diversity Award	From \$1,000 in full tuition and fees: min. of 15 awards; Application deadline: December 1 for receipt of application, transcripts and SAT results	CRITERIA U.S. citizen. Academic achievement; leadership potential; demonstrated participation in and commitment to school and community cultural diversity; full-time applicant degree candidate. <i>Freshman:</i> Maryland resident; minimum 3.00 cumulative academic GPA; 1100+ combined SAT. Primary consideration given to applicants and with highest credentials, and earliest application. <i>Transfer:</i> Maryland resident; minimum 3.00 GPA with AA degree and direct transfer from a Maryland community college. CONTACT Ms. Markiesha Wilson (410) 830-2113	Mary E. Cromwell	Annual tuition and fees, on-campus room, and board. Other smaller awards possible as funds permit. Application deadline: December 1 for receipts of application, transcripts and SAT results Awarded for four years with a 3.25 cumulative average each semester.	CRITERIA Entering freshmen, awarded to Maryland resident on basis of SAT scores and HS average; strongest consideration given to those with 3.5+ GPA, 1270+ SAT. Full-time applicants only. CONTACT Ms. Angel Jackson (410) 830-2113 or toll free in continental U.S. 1-888-4TOWSON
Towson Scholar	Annual tuition and fees, room and board. Application deadline: December 1 for receipt of application, transcripts and SAT results	CRITERIA Entering freshmen, awarded on basis of SAT scores and HS average; strongest consideration given to those with minimum 3.5+ academic GPA and 1270+ SAT. Full time-applicants only: Awarded for four years if student maintains 3.25 cumulative GPA each semester and continuous full-time status at this university. Recipients will be asked to render special services to the University community. Awards made on the basis of Admission material. CONTACT Ms. Angel Jackson (410) 830-2113 or toll free in continental U.S. 1-888-4TOWSON	Elizabeth Cannon Memorial Scholarship	Annual tuition and fee, on campus room and board. Other, smaller awards possible as funds permit. Application deadline: December 1 for receipt of application, transcripts and SAT results. Awarded for four years with 3.25 cumulative average each semester.	CRITERIA Entering freshmen, awarded to Maryland resident on basis of SAT scores and HS average; strongest consideration given to those with 3.5+ GPA, 1270+ SAT. Full-time applicants only. CONTACT Ms. Angel Jackson (410) 830-2113 or toll free in continental U.S. 1-888-4TOWSON
Presidential	Amount varies, up to to annual tuition. Limited number offered on a competitive basis. Application deadline: December 1 for receipts of application, transcripts and SAT results	CRITERIA Entering freshmen, 3.50+ GPA, 1270+ combined SAT. Entering transfer students, and direct transfer Maryland resident: full-time applicant 3.75 cumulative GPA and Associate of Arts degree awards from a Maryland community college. Awards are given beginning October 1. Early application is encouraged. Full-time applicants only.	University Scholarship	Amount varies up to annual tuition for Maryland residents. Out-of-state students may qualify for \$3,500.00. Limited number offered on a competitive basis. Application deadline: December 1 for receipt of application, transcripts and SAT results	CRITERIA Entering freshmen, awarded on basis of SAT 1180+, GPA 3.5+, or top 10% of institutional norms of measured academic potential, or demonstrated ability in visual or performing arts, or demonstrated academic leadership qualities. Entering transfers, competitive for Md. Comm. Coll. AA degree recipient with cumulative GPA of at least 3.5 and direct transfer. Full-time applicants only. CONTACT Ms. Angel Jackson (410) 830-2113 or toll free in continental U.S. 1-888-4TOWSON
			Provost's Scholarship	Varies. Application deadline: December 1 receipt of application, transcripts and SAT results	CRITERIA Entering freshmen, full-time applicants, competitive according to SAT or GPA; for students specifically recruited to assist the university in meeting goals of talent, leadership, academic potential, citizenship, or diversity. CONTACT: Ms. Angel Jackson (410) 830-2113 or toll free in continental U.S. 1-888-4TOWSON

SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
ALUMNI Alumni Distinguished Scholar Awards	Amount varies depending upon interest from endowment. Up to 3 annually. Application deadline: April 1	CRITERIA Eligible candidates must be a son or daughter of a Towson University alumnus or alumna; current full-time degree candidate with a minimum of 75 credits with 45 hours completed at TU and a 3.50 GPA. CONTACT Alumni Relations (410) 830-2234 or (800) 887-8152	STUDY ABROAD FILA scholarship to Study Abroad in Italy	Up to \$2,000 Deadline: Call International Education Office for date	CRITERIA Junior or Senior participating in University of Maryland System Florence International Program. Must be able to demonstrate financial need and a strong academic record. CONTACT International Education Office (410) 830-2451
Outstanding Man and Woman Awards	\$1,000 (2) annually Application deadline: varies	CRITERIA Full-time TU degree candidates; 3.0 GPA, with at least one year of classes left before graduation. Evaluated on basis of scholarship, campus, civic and community involvement, employment experience, special talents and abilities and an essay questions. Finalists are interviewed by selection committee. CONTACT Student Development Office (410) 830-3307	National Security Education Program (NSEP)	Varies Deadline: December 15	CRITERIA Full-time degree seeking undergraduate students who demonstrate high levels of academic performance and strong motivation to internationalize their education. Must demonstrate interest in foreign languages and cultures in world regions less commonly studied by Americans. Must propose a study abroad experience outside Western Europe, Canada, Australia, and New Zealand. CONTACT International Education Office (410) 830-2451
Ronald L. Peterson Freshman Scholarship Award	\$1,000. Up to 5 annually. Application deadline: February 1	CRITERIA Eligible candidates must be the son, daughter, grandson, or granddaughter of a Towson University alumnus or alumna, admitted entering first-semester freshman, 3.25 GPA grades 9-12 and/or SAT score 1000+. CONTACT Alumni Relations (410) 830-2234 or (800) 887-8152	International Student Exchange Scholarship (See also, International Student Exchange Program Scholarships)	\$250-\$500 Deadline: April 15	CRITERIA Eligible candidates are full-time degree seeking students who have applied to study abroad for one semester or an academic year during junior or senior year. Must be pursuing at least one major in the College of Liberal Arts. Minimum cumulative GPA of 3.0. Finalists will be interviewed by a selection committee. The scholarship is not renewable. CONTACT Dr. Harry Piotrowski History Department (410) 830-3933
ATHLETIC DEPARTMENT TU Athletic Scholarships	Amount Varies Application deadline: Varies	CRITERIA Athletic ability is the major consideration CONTACT Head Coach of the sport	Institutional Study Abroad Scholarship	\$1,000. Deadline: April 1 for Fall semester and academic year. November 1 for Spring semester	CRITERIA Candidates must be full-time degree seeking undergraduate students, will be studying abroad during Junior or Senior year. Minimum cumulative GPA 2.75. Selection based on application and interview with Study Abroad Scholarship Committee will be conducted with finalists only. Scholarships awarded to students for one semester (Fall or Spring), or an entire academic year. Scholarship is non-renewable. CONTACT Ellen Lichtfuss or Sally Spence International Education Office (410) 830-2451
Rich Bartos Memorial Endowment	Up to \$1,000 per year. Application deadline: TBA	CRITERIA Starting M's soccer degree-seeking student-athlete with a 2.0 GPA CONTACT Nance Reed (410) 830-4177			
Wayne Breeden Scholarship Fund Endowment	\$240 per year. Application deadline: TBA	CRITERIA Current baseball student-athlete. Junior degree candidate, Business major, with a 2.4 GPA CONTACT Nance Reed (410) 830-4177			
B. Melvin Cole Scholarship Endowment	Up to \$1,000 per year. Application deadline: TBA	CRITERIA Current student-athlete with 2.5 GPA. CONTACT Nance Reed (410) 830-4177			
Joe McMullen Athletic Scholarship	Up to \$1,000 Application deadline: TBA	CRITERIA Current junior or senior student athlete or support student, degree candidate with honors average. Selection made on basis of athletic accomplishments, character, and community spirit. CONTACT Ms. Nance Reed (410) 830-4177			
Rachuba Enterprises Scholarship Endowment	Amount varies. 1 annually. Renewable to same student if Athletic Director so desires. Application deadline: TBA	CRITERIA Current junior or senior student athlete with a 2.50 GPA or better. CONTACT Nance Reed (410) 830-4177			
Carroll Stephen & George Thomas Rankin Endowment	\$2,500 per year on rotating basis with football, M's basketball, baseball Application deadline: TBA	CRITERIA 2.5 cumulative GPA. Demonstration of need. CONTACT Nance Reed (410) 830-4177	COLLEGE OF BUSINESS AND ECONOMICS Bell Atlantic, MD-Inc. Scholarship	\$400 (4) Annually Application deadline: September 15	CRITERIA Excellent grades, extracurricular activities. Renewable to same student. CONTACT Department Chairs
			Mary Fyffe Chiswell, Class of 1922 Scholarship	Up to \$320 (5) Annually Application deadline: March 31	CRITERIA Sophomore, Junior, or Senior, Maryland resident, based on merit and/or need. CONTACT Mr. Barry Buchoff (410) 830-3228

SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
Towsontowne Business & Professional Women's Club Scholarship	\$200 Application deadline: March 15	CRITERIA Applicant must be woman officially admitted, in undergraduate degree program within the School of Business; have completed 60 credits with a cumulative GPA of 3.0 or better; be a full- or part-time student, must be working on her first degree, must be able to demonstrate financial need. CONTACT Mr. Barry Buchoff (410) 830-3228	Jack Delaney Scholarship	Varies Application Deadline: March 3	CRITERIA Available to Early Childhood, Elementary, Secondary, General Educational, and MAT studies. Must be enrolled in or have completed a field placement. Letter from cooperating teacher stating the interest and ability you implemented in your teaching to enhance the arts. Minimum GPA of 3.0, NTE scores on Core Battery required. Student must submit a 500-word typed statement on "Enhancing Teaching by the Use of the Arts." CONTACT Dean's Office (410) 830-2570
Accounting Russell Denison Prize for Excellence in Accounting	Approximately \$100 awarded at graduation	CRITERIA Highest GPA; Full-time student; graduating senior. CONTACT Accounting Department (410) 830-2227	Nion Fisher Memorial Commencement Award	\$100 per Award	CRITERIA Graduating senior of the College of Education with a 3.5 cumulative grade point average in the major, and an English minor. CONTACT Dean's Office (410) 830-2570
Sylvia Berstein Prize for Excellence in Accounting	Approximately \$100 awarded at graduation	CRITERIA Highest GPA part-time student; graduating senior. CONTACT Accounting Department (410) 830-2227	Rosalie Krostar Paulson Scholarship Fund	Varies Application deadline: March 3	CRITERIA Part-time undergraduate degree seeking candidate, 25 years of age, or older, demonstration of financial need (see College application form) 3.0 GPA. Must submit a 500-word written statement on your interest and view on teaching. CONTACT Dean's Office (410) 830-2570
Economics Jeremiah J. German Scholarship in Economics	\$1,000 Application deadline: April 1	CRITERIA Economics major completing Junior year, with 3.26 GPA and Economics 309 and 310. A 750-word essay, topic announced in February, is required. Award announced by June 15. CONTACT Dr. James Dorn (410) 830-2956	Teacher Candidates in Urban Schools	\$1,000 to \$2,000. Application deadline: March 3	CRITERIA Incoming Freshman, Sophomore, Junior, TU Juniors and Seniors; must be a full-time student, committed to teaching in urban sites; Maryland resident; preference given to residents of Baltimore City. Interview required. African-American students are encouraged to apply.
Wall Street Outstanding Achievement Award in Economics	1-year subscription to Wall Street Journal and a Desk Set	CRITERIA Outstanding Senior and Economics major. Awarded at graduation. CONTACT Economics Department (410) 830-2145	Teacher Education (Critical Shortage)	Tuition	CRITERIA Undergraduates who have completed 60 credit hours, have a cumulative GPA of at least 3.00 enrolled in a program leading to certification as a teacher in one of the areas of critical shortage. CONTACT State Board of Education
Federal Reserve Bank Excellence Award	Awarded at Commencement	CRITERIA outstanding senior and Economics major. CONTACT Economics Department (410) 830-2145	Early Childhood Education Class of 1931/Eunice Crabtree Scholarship	\$500 (\$250) per semester. Application deadline: March 3	CRITERIA Full-time undergraduate degree candidate. Senior class standing, 3.5 GPA, Maryland resident, plan to teach in Maryland; transfer students enrolled in or have completed 30 credits at TU; enrolled in or completed "Pre-primary Curriculum." Must submit a 500-word written statement on your interest and views on teaching. CONTACT Dean's Office (410) 830-2570
Finance Baltimore Security Analysts Society Scholarship	2 scholarships awarded at \$1,000 each. Application deadline: October 1	CRITERIA Full-time degree seeking Junior/Senior student; 3.5 GPA or better, completion of FIN 333, Investments and Security Analysis with an "A," financial need. CONTACT Dr. Albert E. Avery (410) 830-2465	Alice B. Gibson Scholarship	\$250 Application deadline: March 3	CRITERIA Full-time undergraduate degree candidate, 3.5 GPA. Early Childhood majors must have completed "Pre-primary Curriculum;" must submit a 500-word written statement on your interest and views on teaching. CONTACT Dean's Office (410) 830-2570
Marketing James L. Dunbar, Jr. Memorial Scholarship Endowment		CRITERIA Awarded to a non-traditional student, 25 years of age or older, Junior or Senior majoring in marketing within the School of Business and Economics. it is renewable. CONTACT Dick Rosecky (410) 830-4076			
COLLEGE OF EDUCATION Ann Reilly Fund	Application Deadline March 3	CRITERIA A second semester Secondary Education major from Baltimore County. If this cannot be met, the Dean of Education should select the most qualified candidate. CONTACT Dean's Office (410) 830-2570			

SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
Brian C. Reuling Memorial Scholarship	Student Teaching Fees Application deadline: March 1	CRITERIA Full-time undergraduate degree candidate; Junior or Senior class standing, 3.0 GPA. Must student teach during coming academic year, interview required. Must submit written statement expressing your goals for student teaching. Application available in HH 301B. CONTACT Dean's Office (410) 830-2570	C.T.S.U. Scholarship	\$750 Deadline: March 3	CRITERIA Junior or Senior, English major in the Secondary Education tract; Maryland resident; 3.0 GPA (minimum) application. CONTACT Dean's Office (410) 830-2570
The Irene M. Steele Most Promising Teachers Award	2/\$100 Winners, By nomination	CRITERIA Early Childhood or Elementary Ed. major, graduating senior, min. 3.25 GPA CONTACT Mr. Keith Martin (410) 830-2432	COLLEGE OF FINE ARTS AND COMMUNICATION		
Elementary Education Class of 1931/ Eunice K. Crabtree Scholarship	\$500 (\$250 per semester). Application deadline: March 3	CRITERIA Full-time degree candidate, Maryland resident, plans to teach in ing, transfer students enrolled in or have completed 30 credits at TU; enrolled in or completed "Curriculum I." Must submit a 500-word written statement on your interest and views about teaching. CONTACT Dean's Office (410) 830-2570	Fine Arts Scholarship Endowment	Amount Varies Application deadline: Varies	CRITERIA Funds disbursed to individual departments. Each department in the Arts determines selection procedure and funds allocation. CONTACT Art, Music, or Theatre Department Chair
Alice B. Gibson Scholarship	\$250 Application deadline: March 3	CRITERIA Full-time undergraduate degree candidate, 3.5 GPA, must have completed "Field Studies," must submit a 500-word written statement on your interest and views about teaching. CONTACT Dean's Office (410) 830-2570	Mary Fyffe Chiswell, Class of 1922, Scholarship	Amount Varies. Application deadline: March 15	CRITERIA Sophomore, Junior, or Senior; Maryland resident; based on merit and/or need. Award recipients rotate yearly by departments--Art, Dance, Music, Speech/Mass Communication, Theatre. CONTACT Dean's Office (410) 830-3288
The Christa R. Jeunette Memorial Scholarship Endowment	\$350 for Tuition for Fall Semester Deadline: May 20 Current Year	CRITERIA Full-time junior or senior with at least a 3.00 GPA and need. Award recipients rotate yearly by departments--Art, Dance, Music, Speech/Mass Communication, Theatre CONTACT Dean's Office (410) 830-3288	The Jack F. Tolbert Memorial	Amount Varies. Application deadline: March 15	CRITERIA To be awarded to talented students in the Arts. Criteria are determined by each department in the Arts. CONTACT Art, Dance, Music or Theatre Department Chair
Minnie V. Medwedeff Endowment Scholarship	\$250 Application deadline: March 3	CRITERIA Junior or Senior, resident of Maryland, 3.0 cumulative GPA Elementary Education major, can be renewed, but apply each semester. Applications can be obtained in the Elementary Education Department Office, Hawkins Hall, Room 403E. CONTACT Pat Blue (410) 830-2229	The Franklin and Alice Cooley Scholarship for the Arts	Amount Varies. Max. of \$400 annually. Application deadline: March 15	CRITERIA Full-time Dance major Acceptance in the major program by audition. Scholarships are renewed each year as long as the criteria are met and the student remains in good academic standing. Scholarships are awarded based upon talent. Departmental work is required of all scholarship recipients. CONTACT Chairperson Karen Kohn Bradley (410) 830-2760
The Irene M. Steele Most Promising Teacher Award	2/\$100 Winners By nomination	CRITERIA Enrolled in or completed one Field Experience at TU, 3.0 GPA. Must submit a 500-word written statement on interest and views on teaching. Demonstration of financial need (see College application form) CONTACT Dean's Office (410) 830-2570	Dance Scholarships	\$500 to \$1,500 Application deadline: Prior to April of each year.	CRITERIA Eligible candidate must have an outstanding cello performance talent. Candidate must submit a screening tape or perform in person for Prof. Cecylia Barczyk. Scholarships are granted for studying cello with Prof. Barczyk as an undergraduate, graduate, or visiting artist. CONTACT Ms. Cecylia Barczyk (410) 830-2838 or 22839
Secondary Education Class of 1931/ Eunice Crabtree Scholarship	\$500 (\$250 per semester). Application deadline: March 3	CRITERIA Early Childhood or Elementary Education major, graduating senior, minimum 3.25 GPA and nomination by faculty. CONTACT Mr. Keith Martin (410) 830-2432	Music Cello Scholarship	Varies. Annually. Possibility of renewal to same student. Application deadline: Varies	CRITERIA 3.00 average in Music courses, 2.50 average in general university requirements. Recruitment and retention of oboe player. CONTACT Dr. Carl B. Schmidt (410) 830-2143
		CRITERIA Full-time undergraduate degree candidate, 3.5 GPA, Senior class standing, Maryland resident, plans to teach in Maryland; transfer student enrolled in or completed 24 credits at TU; enrolled in or completed "Principles of Secondary Education" (Grade of "B" or better). Must submit a 500-word written statement on your interest and views on teaching. CONTACT Dean's Office (410) 830-2570	Dickman Music Scholarship	\$300 (1) Annually Application deadline: March 1	CRITERIA Towson University music major currently enrolled in private lessons and sponsored by a Towson University faculty member. Performance competition each Fall semester. CONTACT Dr. Carl B. Schmidt (410) 830-2143
			Peggy and Yale Gordon Foundation Award	Awards of \$750, \$500, and \$250 Application deadline: Early Fall	

SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
Guitar Scholarship Fund	50-100 Awarded in Fall Application deadline: April 1	CRITERIA Full-time music majors enrolled in Classic Guitar Performance. AUDITION REQUIRED CONTACT Ms. Maryclaire Ingalls (410) 830-3646	Speech and Mass Communication The Eddy Ballad Award for Journalism	Approximately \$250, 1 per year Departmental selection based on Journalism faculty nominations.	CRITERIA A graduating journalism major, who has demonstrated outstanding achievement and promise in the field of journalism. CONTACT Dr. R. J. Matlon (410) 830-2488
The John H. Kelbaugh Scholarship Endowment	\$300 until 1997 Application deadline: March 15	CRITERIA Sophomore, Junior or Senior. Scholarship is awarded based on merit (talent). Need may be a consideration. CONTACT Dr. Carl B. Schmidt (410) 830-2143	Forensics Scholarship	Amount varies annually Application deadline: May 1 and November 1	CRITERIA High school and/or college, forensic experience, renewable to same student. CONTACT Director of Forensics (410) 838-2888
Livingston-Coulange Scholarship	Up to \$400 (Number Varies) Application deadline: April 1	CRITERIA Must be pipe organ major Audition required. CONTACT Dr. Thomas Spacht (410) 830-2823	Patrick John O'Connell Memorial Scholarship	\$200 (could exceed) Application deadline: March for Fall; October for Spring Exact dates vary each year. Check Department for current year's deadline.	CRITERIA Mass Communication major with interest in Broadcast Journalism Visual Media, Public Relations, or Journalism. Minimum 3.0 cumulative GPA. CONTACT Scholarship Coordinator (410) 830-3431
Marching Band Stipend	\$50-\$250 Application deadline: June 1	CRITERIA Must be in the Band and other instrumental ensembles as determined by audition and need of ensemble. CONTACT Dr. Dana Rothlisberger (410) 830-2765	Thomas H. O'Connor, II Broadcasting Scholarship Endowment	Approximately \$500 per semester Applicant deadline: March for Fall; October for Spring. Exact dates vary each year. Check Department for current year's deadlines.	CRITERIA Mass Communication major, demonstrating a sincere interest in radio broadcasting. A minimum 3.00 GPA. Selection by Speech and Mass Communication Scholarship Committee. CONTACT Scholarship Coordinator (410) 830-3431
Music Department Scholarships	\$1,000/Yr. 4-year scholarship Deadline: June 1	CRITERIA Must be Music major or minor. Based on talent. CONTACT Dr. Carl B. Schmidt (410) 830-2143	Public Relations Society of America Scholarship	To be announced; granted annually by the PTSA, Maryland Chapter.	CRITERIA Excellent academic record; commitment to public relations profession; campus involvement. CONTACT Dr. Mack McElreath (410) 830-3803
Music Scholarship for Music Preparatory Students	\$1,000/Yr. 4-Year Scholarship Deadline: June 1	CRITERIA Must have been a TU music Prep. student for at least 3 years must be a full-time music major, plan on four continuous years of study, maintain a 3.0 cumulative GPA. Preference given to student who studies with University instructor who also teaches for the Pre Division. Scholarship dependent on availability of funds. CONTACT Edward C. Berlett (410) 830-3248	George F. Rogers, Jr. Memorial Scholarship	Up to \$2,000 annually Application deadline: March, Exact dates vary each year. Check Department for current year's deadlines.	CRITERIA Undergraduate Mass Communication major with a minimum of one and maximum of two full semesters remaining prior to graduation. Minimum GPA 3.25 in the major, minimum of overall GPA 3.0 CONTACT Scholarship Coordinator (410) 830-3411
Henry Sanborn Music Scholarship	Varies from \$1,000-\$1,400 Application deadline: early Spring semester	CRITERIA Annual awards given to voice and piano student. Full-time degree candidate. Music major, at least 3.00 GPA. Must have completed 30 semester hours; 15 must be at TU. CONTACT Dr. Carl B. Schmidt (410) 830-2143	Theatre The Askew Scholarship Endowment	Varies	CRITERIA Scholarship for the Theatre Department; annual to full-time degree candidates, GPA 2.0+, demonstrated excellence; priority to be given in order listed to: Graduate of Forbush School, or student with a learning disability. CONTACT Theatre Department Chair (410) 830-2786
Talent Awards	\$100 Application deadline: March 1	CRITERIA Based on competitive auditions in Spring semester. Music major or minor CONTACT Dr. Carl B. Schmidt (410) 830-2143	Charles S. Dutton Scholarship Endowment for Minority Students In Theatre	Varies (1) Students in	CRITERIA Talented minority student in theatre, theatre major, good academic standing and in Department. Renewable to same student. CONTACT Theatre Department Chair (410) 830-2786
Towson University Bassoon and Oboe Scholarship	Amount Varies By audition	CRITERIA Granted through audition only. CONTACT Dr. Harold Griswold (410) 830-2839	C. Richard Gillespie Scholarship Endowment	Varies	CRITERIA Scholarship for Theatre Major based on talent and grade point 3.0 in Theatre, 2.5 overall; one year. Not open to entering students. CONTACT Theatre Department Chair (410) 830-2786
University Scholarship, Music	Full-Time Tuition (5) Application deadline: Varies	CRITERIA See Music Department for current criteria. CONTACT Dr. Carl B. Schmidt (410) 830-2143			
C. James Velie Memorial Scholarship	Approximately \$200; may be divided and awarded to more than one applicant. Number varies. Application deadline: April 15	CRITERIA Music performance. 3.00 GPA, potential for success as music teacher. Ability to perform before faculty audition. CONTACT Dr. James Anthony (410) 830-2813			

SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
John Glover Endowment Scholarship	Varies	CRITERIA Talented and academically strong acting Theatre major. Nominated by department CONTACT Theatre Department Chair (410) 830-2786	Robertson Award in Occ. Therapy Mental Health	Varies	Varies CONTACT C. Jenna Isenock (410) 830-4330
The Walter F. Kramme Scholarship Endowment	\$300 until 1997 March 15	CRITERIA Sophomore, Junior or Senior scholarship is awarded based on merit (talent). Need may be considered. CONTACT Theatre Department Chair (410) 830-2786	Warren Internship Award	Up to \$500 Annually Application deadline: October 25	CRITERIA Financial need to assist in doing a 3rd internship or an internship away from home, 3.0 GPA or higher, undergraduate or graduate student in occupational therapy program. Eligible students will be scheduled for internships January - August. Written one-page statement of financial need and professional goals. CONTACT Ms. Nancy Blade (410) 830-2253
Theatre Department Endowment Scholarship	Varies	CRITERIA Talented and academically strong Theatre major. Nominated by department. CONTACT Theatre Department Chair (410) 830-2786	Kinesiology Jean S. Baumbach Scholarship Endowment	Up to 50% of Institute Tuition. Application deadline: April 15	CRITERIA Female student, permanent resident of Maryland, major in Physical Education-Teacher Education, 3.0 GPA Sophomore year of higher, active in professional and community organizations. CONTACT Ray Stinar (410) 830-2376
COLLEGE OF HEALTH PROFESSIONS Communication Sciences and Disorders Linda McClung Memorial Loan Fund	\$250 Loan Application deadline: None	CRITERIA Full-time graduate student in Speech-Language Pathology and Audiology CONTACT Department Chair (410) 830-3097	Jennifer L. Thomas Memorial Fund	\$250 per semester total (\$500) non-renewable. Application deadline: February 1	CRITERIA Full-time degree candidate, Maryland resident, 3.0 GPA, Junior or Senior (minimum completion of one semester a PHEC/TE major at TU) Physical Education-Teacher Education major, three (3) letters of recommendation, 1-2 page typed essay defining interest in physical education as a profession. CONTACT Dr. Raymond Stinar (410) 830-2376
Health Science Health Education Working Fellowship	Approximately \$500/semester, renewable. Application deadline: by the end of first week each semester.	CRITERIA Full-time Health Science major, 2.5 GPA or better. Recipient will work with Dr. Osman doing health promotion (8 hrs./wk.) Valuable work experience. CONTACT DR. Jack Osman (410) 830-2637			
Nursing The Rowanneta Sarah Allen Scholarship Endowment	Interest from Endowment. Applicant deadline: Awarded Spring Semester for Fall.	CRITERIA Enrolled in nursing major, minimum 3.0 GPA, statement of need, one-page essay. Renewable to same student. CONTACT Resource Committee, Department of Nursing (410) 830-2068	COLLEGE OF LIBERAL ARTS English Gerry Buettner Trust Award	Amount Varies No application	CRITERIA Outstanding graduating English major, faculty select s. CONTACT Department Chair (410) 830-2869
Rena & Dewey Farberman Memorial	\$100 Application deadline Spring semester for Fall	CRITERIA Financial need, good academic standing, junior CONTACT Resource Committee (410) 830-2068	Smart A. Ekpo Scholarship	Varies Application deadline: April 1	CRITERIA Political science major Junior, preference for African-American student, if available; 3.0 GPA. CONTACT Eric Belgrad (410) 830-2149
Dr. Walter M. Hammett Scholarship	Tuition & Fees Application deadline:	CRITERIA Junior & Senior in the Nursing major, minimum 3.0 GPA of all college-level study, documentation of financial need, demonstrated leadership ability/potential. Applicant's permanent address must be located: Jacksonville, Baldwin, Fallston, Kingsville, Big Gunpowder, Glen Arm, Long Green Pike, Hess Road, and Long Green Valley. Parameters shall be: West of US Route 7, East Jarrettsville Pike, North of Cromwell Bridge Road, South of US Route 1 and 147.	History Cecilius Calvert Chapter of Daughters of the American Colonists	Medal of the Daughters of American Colonists No application	CRITERIA Outstanding graduating History major with an excellent GPA in American History courses. History faculty select the recipient and present the medal. Award in American History CONTACT Dr. J. Van Osdell (410) 830-2923
Occupational Therapy Henrietta Price Scholarship	\$500 Application deadline: December 15	CRITERIA Candidate must be a Maryland resident, must be a Junior in the B.S. program, or a second year student in the M.S. program in occupational therapy at Towson University, must be a student member of the American Occupational Therapy Association and a member of the Maryland Occupational Therapy Association CONTACT Dr. Charlotte E. Exner (410) 830-2762	Disabled American Veterans Prize in History	Interest/Dividends accruing annually from a \$10,000 endowment fund No application	CRITERIA Outstanding graduating History major with a minimum of 3.50 in major and 3.00 overall GPA. History faculty select the recipient and present prize. CONTACT Dr. J. Van Osdell (410) 830-2923

SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
Mary Catherine Kahl History Prize	Interest and dividends accruing annually from an Endowment Fund established by the faculty in honor of Professor Mary Catherine Kahl	CRITERIA Outstanding History major or minor who has not yet graduated, but has a minimum of 85 credits. A minimum GPA of 3.0 and 3.5 in History is required. An interdepartmental committee selects the recipient and make the award each May. CONTACT Dr. Mark Whitman (410) 830-2920	Mignon Lieberman Internship Award	Plaque	CRITERIA Awarded for best performance each year for students enrolled in the department's internship program. CONTACT Dr. Justine Jones (410) 830-2659
Law Enforcement Maryland Law Enforcement Officers Scholarship	\$1,250 annually, not renewable to same student Application deadline: March 1	CRITERIA A junior Interdisciplinary major with a concentration in Law Enforcement and 3.00 GPA. Planning to pursue a career in law enforcement, but not presently in a law enforcement position. In need of financial assistance. Applicant must prepare a one page statement of career goals. The Towson State University Law Enforcement Advisory Committee will select the recipient. CONTACT Dr. John Toland (410) 830-2933	COLLEGE OF GRADUATE AND EXTENDED EDUCATION Fulbright Scholarship for Graduate Study Abroad	Full expenses for one year of study abroad. About 700 nationwide.	CRITERIA U.S. citizen, B.A./B.S. by the beginning of the grant period (i.e., seniors apply in the fall for a grant to begin one full year later). Knowledge of language of the host country. Highly competitive, excellent academic record and a clearly defined proposal of study are needed. CONTACT Dr. M. Barbara Leons (410) 830-2147
Modern Languages Towson University Endowment for Latin American, Spanish and Portuguese Studies in Memory of Dr. Francisco Sahin	Up to \$250 for Tuition, Room and Board, Books and Fees. Application deadline: May 1 for Fall; November 15 for Spring	CRITERIA Sophomore or Junior primarily based on financial need and promise of academic excellence. Full-time student in TU major in Spanish, Latin American Studies and/or Portuguese program. CONTACT Dr. Jorge Giro (410) 830-2878	Graduate Assistantships	Cash stipend and tuition waiver (amounts of both vary). Selection begins in April	CRITERIA Admission to a graduate program with variable tuition waivers for number of credits taken per semester (depending on the amount of assistantship award) CONTACT Associate Dean Fredrick Arnold (410) 830-2077
Dr. Joseph Vidal-Liecha Memorial Scholarship	Approximately \$150 for tuition, room and board, books, and fees. Application deadline: May 1 for Fall; November 15 for Spring	CRITERIA Sophomore or Junior based on talent and need majoring in French CONTACT Dr. Jorge Giro (410) 830-2878	Graduate Music Scholarship	\$255 per semester (4)	CRITERIA Strong performance ability, admitted to Master of Music Program, in good academic standing, 3.0 GAP. Renewable to same student. Selection by Music Department Chair, or coordinator of Master of Music program. CONTACT Dr. Carl B. Schmidt (410) 830-2141
Endowment Fund for Don Miguel de Cervantes Scholarship	Up to \$200 for tuition, room and board, books and fees. Application deadline May for fall; November 15 for Spring	CRITERIA Based on financial need and proof of academic excellence in secondary school or university. Full-time TU students in any academic program at time of application. CONTACT Dr. Jorge Giro (410) 830-2883	COLLEGE OF NATURAL AND MATHEMATICAL SCIENCES Biological Sciences Compton Crook Award for Outstanding Junior Biology Student	Plaque	CRITERIA Biology major, 3.3 average in Biology, 3.0 overall average, completed 70 credits, student shall have distinguished academic performance, research, and/or service. Nomination by Biology faculty or officer of Biology student organization. CONTACT Biological Sciences Department (410) 830-3042
Sociology Dr. Irwin Goldberg Endowment for Sociology	A Plaque	CRITERIA Awarded for best sociological research paper submitted each year as term paper, independent study, for presentation at academic meeting or publication. CONTACT Dr. R. Guy Sedlack (410) 830-2931	James Edward Ewig Memorial Scholarship Endowment	\$400-\$500. Application deadline: End of Spring Semester	CRITERIA Junior or Senior majoring in Biology, 3.0 cumulative GPA, selection by committee from the college. CONTACT Biology Department (410) 830-3042
Dr. & Mrs. Sidney Lieberman Endowment	Initiation Fee for AKD	CRITERIA Admission to Alpha Kappa Delta Sociology Honor Society. CONTACT Dr. Jay Stanley (410) 830-2389	Wilfred B. Hathaway Outstanding Graduate Student Award	Plaque	CRITERIA Fully admitted graduate student having completed 8 graduate credits. Nominees should exhibit an exemplary record as a graduate student in one or more of the following areas: scholarship, service, research. Nominated by a member of the graduate faculty of department of Biological Sciences. CONTACT Biological Sciences Department (410) 830-3042
The Lieberman Award for the Most Distinguished Scholar	Gold Pin and Certificate	CRITERIA Awarded to most distinguished graduating scholar. CONTACT Dr. Justine Jones (410) 830-2659	John David Horst Memorial Scholarship	\$25-\$50 Application deadline: early Spring	CRITERIA Completion of an Independent Research Project, must submit a written report and present a seminar. CONTACT Dr. J. Richard Hilton (410) 830-3042

SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
James Moniodis Memorial Award	\$400-\$500 Application deadline: March 1	CRITERIA Biology major entering Senior year with a minimum of 8 upper level biology credits at TU and with a 3.00 GPA in Biology courses and a 2.75 overall GPA. Participation in extra curricular activities. CONTACT Dr. James Hull (410) 830-4117	Diehl Graphsoft Award in Computer Science	\$500 Scholarship (2)	CRITERIA Two scholarships for outstanding Junior or Senior Computer Science majors with a minimum 3.0 GPA and a course in Computer Graphics or related area. CONTACT Dr. Kiumi Akingbehin (410) 830-3701
Lois D. Odell Award	Plaque	CRITERIA 101 credits completed. Biology major with 3.3 average in Biology and 3.0 overall; students shall have distinguished themselves through academic performance, research and/or service. Nomination by faculty and/or service. Nomination by faculty or officers of Biology student organization. CONTACT Biological Sciences Department (410) 830-3042	Mathematics Joyce C. Neubert Award in Mathematics	Approx. \$250, plus a book, annually, (1) Application deadline: March 1	CRITERIA Mathematics major, Junior standing as of March 1, 2 letters of recommendation from math faculty. CONTACT Dr. John Morrison (410) 830-3595
Lois D. Odell Scholarship for Outstanding Transfer Students	\$500 Applicant deadline: End of Spring Semester	CRITERIA Biology major, transfer with at least 55, but no more than 65 credits at one or more community colleges, or 4-year schools; overall GPA of 3.2; must have completed 12 credits in 300 or 400 level Biology electives. CONTACT Biological Sciences Department (410) 830-3042	Jess Fisher (Class of 1934) Pre-Engineering Scholarship	\$1,000 annually Application deadline: Undecided	CRITERIA Incoming Freshman, Sophomore, Junior, Senior, based on merit without regard to race, religion, or gender. May be awarded to same student. CONTACT Physics Chairperson (410) 830-3009
Chemistry Floyd A. Blankenship Memorial Award	Book I, annually	CRITERIA Outstanding physical chemistry student selected by both the physical chemistry coordinator and the chemistry major, demonstrate superior academic performance in physical chemistry lecture course, have completed two physical chemistry lecture courses. Renewable to same student. CONTACT Dr. Nordulf Dehye (410) 830-3046	UNIVERSITY-WIDE SCHOLARSHIPS CEEP Scholarship (Community Enrichment and Enhancement Partnership)	\$500-\$4,000 per year Applications available March 15 Deadline: April 1, continuing students; July 15 incoming students	CRITERIA U.S. citizen, Maryland resident, black, or other racial minority, with at least a 2.0 GPA, willing to commit up to 10 hours per week involvement in activities which benefit the Towson community, preferable full-time CONTACT Dr. Camille Clay (410) 830-2051
Student Affiliates of the American Chemical Society Scholarship	\$250 or more Amount varies. Application deadline: March	CRITERIA Academically superior Junior or Senior chemistry majors having completed 15 hours (including 6 upper level hours) of chemistry at Towson. CONTACT Chemistry Department (410) 830-3058	The Darry M. Dixon, III Memorial Undecided Scholarship	Varies. Application deadline:	CRITERIA To provide scholarship funds to the awardee of the Phi Sigma Kappa Fraternity Scholar chosen annually in memory of Darry M. Dixon III. Scholarship selection process by commuter choosing the Phi Sigma Kappa Fraternity Freshman/Sophomore Outstanding scholar. CONTACT Dr. Jay Stanley (410) 830-2389
Computer and Information Sciences COSC/NECC Scholarship Fund	Application deadline:	CRITERIA Two scholarships for seniors majoring in COSC; 3.5 GPA, contribution to student computing organization. CONTACT Doris K. Lidtke (410) 830-2981	The Margaret Duke Chambers Scholarship	Varies Application deadline: November 15	CRITERIA Undergraduate degree candidate with at least a 3.00 cumulative GPA. Students are nominated by Department Chair. CONTACT Financial Aid Office (410) 830-2061
Upsilon Pi Epsilon (UPE) Award for Excellence in Computer Science	\$125 annually Application deadline: March 15	CRITERIA Outstanding Computer Science major with a 3.14 GPA in the major and 3.0 GPA overall; one award for a non-UPE major and one award for an active UPE member. CONTACT Dr. Kiumi Akingbehin (410) 830-3701	The Associated Italian American Charities of Maryland, Inc. Memorial Scholarship #10	\$1,000 annually Application deadline: March 15	CRITERIA U.S. citizen with Italian heritage. Undergraduate or graduate. Financial need. At least a 3.00 GPA. CONTACT Ms. Lisa Harrison (410) 830-2647
Mary Hudson Scarborough Award in Computer Sciences	A Book	CRITERIA Outstanding graduation Senior, voted by Computer and Information Sciences Department. Students are nominated by faculty CONTACT Dr. Kiumi Akingbehin (410) 830-3701	Foundation Scholarship	Up to \$500 (number varies). Application deadline: October 15	CRITERIA U.S. citizen, undergraduate degree candidate, Sophomore, Junior or Senior with at least a 3.0 GPA. Students are nominated by Department Chair and selection is made by a University Scholarship Committee. CONTACT Department Chair for application in mid-September
			Disabled Students Scholarship	Amount varies. Tuition & Fees Application deadline: March 15	CRITERIA The applicant must be a new incoming student, a Maryland resident, have a documented disability, satisfy TU admissions requirement, have a GPA of at least 3.00, submit an essay outlining his/her background and educational career goals. The Scholarship will be renewable if the student maintains a 2.5 GPA each semester while a full-time undergraduate at TU.

SCHOLARSHIPS AND AWARDS

SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT	SCHOLARSHIP AWARD	AMOUNT/ DEADLINE DATE	CRITERIA/CONTACT
Loats Scholarship	Amount varies Application deadline: November 1	CONTACT Office for Students with Disabilities (410) 830-2638 (V/TDD) CRITERIA Full- or part-time student, resident of Frederick County. Entering freshmen must have a 3.0 GPA, 1000 SAT. Upperclassmen must have a 3.0 GPA. Students pursuing career in Public Service preferred. CONTACT Ms. Lisa Harrison (410) 830-2647	Northeast Association of Student Employment Administrators	*\$1,500 1st place \$1,000 2nd place \$500 3rd place \$500 4th place \$500 5th place Application deadline: February 2, 1998 *1st place goes on to State competition	CRITERIA Undergraduate student employee working a minimum of 3 months full-time or 6 months part-time between 6/1/96 NS 5/31/97. Nominated by employing department and evaluated by a selection committee. Evaluated on reliability, quality of work, initiative, disposition, and contribution to employer CONTACT Jacqui Glasglow Office of Human Resources (410) 830-3256
Diane Peacock Jezic Memorial Scholarship Endowment	Interest only to be awarded 1 per year. Application deadline: March 15	CRITERIA Officially admitted full- or part-time TU female student, 25 years of age or older, 3.0 GPA for a minimum of one semester. Specifically intended to aid women who are undertaking changes in careers. CONTACT Ms. Lisa Harrison (410) 830-2647	Marthe Quinotte Scholarship	Up to \$500 (number varies) Application deadline: October 15	CRITERIA Undergraduate degree candidate with psychology major. Junior or Senior with at least a 3.00 GPA. Students are nominated by department chair. Selection is made by a University Scholarship Committee. CONTACT Department Chairperson for application in mid-September
Loch Raven Kiwanis Foundation	Up to \$500/varies Application deadline: March 15	CRITERIA Female 25+, at least a 3.0 cumulative GPA, full- or part-time, officially admitted to Towson University. CONTACT Ms. Lisa Harrison (410) 830-2647	Second Bachelor's Degree Scholarships	Annual tuition for Maryland residents and out-of-state applicants. A limited number of scholarships will be awarded each fall and spring semester. Application deadline: for Fall (June 15) and for Spring (Nov. 15)	CRITERIA Entering Second Bachelor Degree candidates. Awarded on a competitive basis (combined 3.5 GPA from ALL previous undergraduate work.) Renewable for one year provided recipient maintains a 3.0 CQPA at Towson. A minimum of two scholarships will be awarded each semester. One will be designated for TU Alumni and one will be open to all Second Bachelor's candidates, regardless of where their first degree was earned. CONTACT Sara M. Sides Non-traditional Undergraduate Programs (410) 830-2471
The Lutheran Campus Ministry (The Lois D. Odell Student Scholarship Fund)	Amount varies up to \$750. Application deadline: mid-September	CRITERIA Must be degree candidate at TU with a minimum GPA 2.75, participate in Lutheran Campus Ministry at TU. CONTACT Pr. Paul Collinson-Streng (410) 321-4484	Women's Forum Scholarship	Amount varies. Spring Semester Application deadline: November 1	CRITERIA Undergraduate or graduate, nontraditional age (25+), female, demonstrate some financial need, part-time and full-time degree candidates. Undergraduate must have minimum 3.0 cumulative GPA at TU, completed at least 30 credits (minimum of 12 from TU). Graduate, at least 6 credits at TU with a 3.75 GPA. One page essay detailing educational goals and describe why student wants to receive scholarship and demonstrate financial need. CONTACT Leah Schofield (410) 830-2666
The Katipunan Filipino Scholarship	\$500 (1) Annually. Application deadline: Undecided	CRITERIA Students must be Filipino or of Filipino descent. Students of families who are Katipunan members shall be given first priority. Student must be a Maryland resident, a Sophomore, Junior, or Senior, and carry a 3.0 GPA. Award based on merit, but need may be considered. Renewable to same student. CONTACT Mr. Ray Alcaraz (410) 830-2137			
John J. Leidy Foundation Scholarships	Up to \$500 (number varies) Application deadline: October 15	CRITERIA Undergraduate degree candidate. Junior or Senior nominated by Department chair and selection is made by a University Scholarship Committee. CONTACT Department Chair for application in mid-September.			
Charlotte W. Newcombe Foundation Scholarship	A % of tuition based on number of credits taken. Application deadline: April 15	CRITERIA Female, 25+ years, 3.0 average, full- or part-time, officially admitted to TU as undergraduate or graduate. Second degree and certification candidates are eligible. An undergraduate must have 60 credits. All applicants must demonstrate need and may be receiving other financial aid. Recipients are eligible to reapply each year. CONTACT Ms. Leah Schofield Women's Center (410) 830-2666			

Academic Regulations

An education from Towson is one that includes a broad liberal arts base and a deep knowledge of one major field of study. To ensure that the degree Towson grants continues to have weight and meaning, and that it signifies student work meeting or exceeding a particular level of excellence, the university insists that certain standards and policies apply to all undergraduate students. These policies are published every year in this catalog, and any revisions are effective as of the date of the catalog's publication (unless otherwise stated).

The Academic Standards Committee, comprising faculty, administrators, and students, meets regularly to formulate policy and to review appeals from students asking for an exception to a policy.

Students who wish an exception to policy must appeal in writing to the Academic Standards Committee, c/o the Registrar's Office, Admin. 229. Appeals must be written by students. Letters received from third parties will be honored only as support of students' appeals. Letters of appeal should be as brief as possible, concise, and must include all pertinent academic information, including, when appropriate, supporting documentation. The Committee expects appeals to reflect their authors as mature and educated individuals. All appeals will receive written responses from the Committee.

This section will explain the policies and regulations that govern academic standards at Towson:

- Definition of terms
- Enrollment and registration
- Changing a schedule (adding and dropping)
- Withdrawing from the University/Cancellation
- Re-entering the University
- Class standing
- Attendance
- Grading
- Repeating courses
- Good stand and satisfactory academic progress
- Failure to remain in good standing
- Readmission/Reinstatement
- Transferring work to Towson
- Graduation

DEFINITION TERMS

A **credit** is the unit given to one fifty-minute class (or its equivalent) meeting weekly for a semester. This means that a class meeting Monday, Wednesday, and Friday from 9:00 to 9:50 or Tuesday and Thursday from 8:00 to 9:15 will be a three-credit class. Most classes fit this format. Classes that require laboratory or studio time in addition to the lecture time will usually merit an extra credit, becoming 4-credit courses, just as those requiring less class time will merit fewer credits. The Schedule Booklet lists the number of credits each class carries. Faculty expect students to spend at least two hours doing reading, writing, and research outside of class for each hour spent in class.

A **semester** is 14 weeks of instruction, exclusive of final examinations. The work covered in one college semester is approximately equal to that done in one year of high school.

Credit-hour load: In a regular semester (as opposed to Summer School or Minimester), students take about 15 credits (five, three-credit courses). In the Minimester, students may take a maximum of 4 credits. Students may register for a maximum of 15 credits during the summer, but they may not take more than nine credits during any one session.

To be considered full-time, undergraduate students must be enrolled in a minimum of 12 credit hours each term. For graduate students, the minimum is 9 credit hours each regular (fall, spring) term.

Minimester is an intensive condensed term in January that allows students to take a course that lends itself to a highly focused format (15 hours of instruction each week) to discuss ideas that interest students or that may fill a gap in student requirements. Students may take a *maximum* of four credits.

Excessive credit hour loads: Degree candidates (formally admitted matriculated students) who have a 2.00 quality-point average (QPA) will be able to register for 19 credits in a semester, and students who have at least a 3.25 cumulative QPA based on at least 30 hours taken at Towson are eligible to carry up to 20 credits. Seniors in their last semester who have at least a 2.5 cumulative QPA and need 20 credits to graduate will be able to take that number. Students whose cumulative QPA is 3.50 or higher based on 30 quality hours are eligible to take 21 credits.

Degree candidates who do not meet the criteria above but wish to carry over 19 credits must appeal to the Academic Standards Committee **in writing before** registering for the excess. Without seeing written permission from the Committee, the Registrar will not process any registrations for an excessive load.

Quality hours and quality point averages: These items will be discussed in GRADING, found later in this section.

Prerequisites: Prerequisites are requirements imposed by an academic department for certain courses within its curriculum. Such requirements may include, but are not limited to, other courses, a specific quality point average, or class standing, (e.g., junior, senior). Prerequisites may also include successful completion of screened requirements, where applicable, or successful completion of a specific test or examination, either departmental or standardized, where applicable. Prerequisites may also include departmental or instructor permission, in addition to, or in lieu of, specific course, testing, or class standing requirements.

Departments are responsible for enforcing prerequisites. Students are advised to read carefully course descriptions found in the *University Catalog* and to make sure they have met any prerequisites *before* registering for courses. Students who remain in courses without having met prerequisites, with or without the permission of the instructor, do so at their own risk. Failure to meet prerequisites and withdraw from a course by the published deadline is not a basis for petitioning the Academic Standards Committee for an exception to academic policy.

ENROLLMENT AND REGISTRATION

Students who have applied for admission to degree candidacy and have been admitted return their Enrollment Form to acknowledge their acceptance of the University's offer of admission. Once they do this, they will receive information about the New Student Orientation Program (Triad) and housing. It is at Triad that they will first meet with an advisor and select their courses for their first semester. Triad is available for new freshmen and transfer students. The process in which students select courses and have those courses entered into the computer is called "registration."

Each semester after admission, all degree candidates receive a letter approximately one month before registration telling them the date they will register (determined by the number of credits they have accumulated) and reminding them that they will need to see their advisor before they register. Students who have no advisor may check with their major department or, if they have no major, with the University Academic Advising Center (Lecture Hall, 410-830-2472) to be assigned one.

After students have met with their advisors, they plan their schedules according to the times listed in the Schedule Booklet, and they complete the Course Request Form contained in the Schedule Booklet. On their date to register, they may go to the Registrar (Admin. 223) to be registered, or they may call the number listed on their registration letter to register by phone. In either case, students

must have met with an advisor to get a departmental stamp or Phone Identification Number (PIN) before they will be able to register.

Non-Degree Students. Non-degree students (those not formally admitted to the University) do not need to have an advisor authorize (stamp) the Course Request Form each semester; however, they are encouraged to seek advising at least once in each academic year.

All students may select standard format courses (those meeting according to a published schedule), or they may select special format courses.

Special Format Courses

Directed readings, independent study, and colloquia are examples of special format courses. Students may not apply more than 12 credit hours of these special format courses toward graduation. Departments may set limits for fewer credit hours, but they may not exceed the maximum of 12 credit hours set by the University Curriculum Committee. Because of the concentrated nature of these courses, students should be advised to take no more than six hours of upper-division special format courses per semester.

Directed Independent Study

The Directed Independent Study Program at Towson is designed for those part-time students who wish to undertake college studies but who are unable to attend classes on campus or who have learning styles that lend themselves to independent work. Courses offered are from the standard curriculum but do not require regular class attendance. An additional tuition and/or fee surcharge may be assessed.

Procedure

After registration, directed independent study students should contact the respective department chair for assignment of an instructor. *It is the student's responsibility to contact his or her instructor.*

Students will be given a course of study and work independently to achieve its objectives, meeting four times during the course with the professor. Study guides, textbooks, and other materials appropriate to the course will assist students in their course of study.

These courses are for degree credit and may be taken by anyone who has a high school diploma or equivalency and is capable of doing college work.

This program is not to be confused with courses listed in the Schedule Booklet as "directed reading" or "independent study," which are advanced courses with variable content and credit, primarily for seniors focusing on a specific topic or issue.

Auditing Courses

Students may audit a course with the permission of the instructor. An audited course will be graded "AU" and will not apply toward the degree unless it is repeated under standard grading. **Students must elect the audit option at any point up to the withdrawal deadline** by presenting a completed Change of Schedule form with the instructor's signature to the Registration Office, Administration Building, Room 223. If students then choose *not* to elect this option, they must follow the same procedure, including the instructor's signature, to *remove* the option up to the withdrawal deadline. Students paying full-time tuition and fees are not charged additionally for auditing. For other students, tuition and fees vary according to the credit value of the course (e.g., 3 credits = 3 x tuition rate per credit hour + appropriate fees).

Students are advised that audited courses:

1. do not count as part of the semester's credit hour load;
2. do not count as part of the student's semester or cumulative totals;
3. do not apply toward graduation unless repeated later for credit;
4. will appear on the transcript as an "AU";
5. will appear on the transcript as an "AUX" if students register for a course as an audit and fail to attend;

6. may not be used to repeat a course for which credit has already been earned.

Important! There are several other things students need to remember before they register each semester.

- Students may not attend class until they register for that class.
- Students must discharge all financial obligations to the institution before they may register.
- Students who register during the late registration period will be charged an additional fee noted in the Schedule Booklet each semester.

CHANGING A SCHEDULE

All changes in students' schedules of classes (adding or dropping a course, or change in sections, credits, or grading option) are valid *only* if students complete a Course Schedule Change Form and file it with the Registrar (Adm. 223). Students who do not complete the Change Form and turn it in by the deadline (published each semester in the Schedule Booklet) will **not** receive credit for classes attended but not formally "added." A grade of "F" or "FX" will be recorded in courses not formally "dropped."

Please refer to the Schedule Booklet for information on making schedule changes by telephone.

Adding a Class. Students may add classes to their schedules during the first week of classes. To do so, they will need the Course Schedule Change Form (available in departmental offices or from the Registrar's Office). Because each department has different procedures for adding classes (some require faculty signature and departmental stamp; others only a stamp), students will need to check the Schedule Booklet, which outlines the procedures each semester.

Students may not enter a class after the change of schedule period ends (first week of classes). Exceptions will be considered only with written authorization from the department chair.

Dropping a Class. Students may drop a class up to the deadline published in the Schedule Booklet.

- If they drop during the change of schedule period (the first week of classes), they will have no grade recorded.
- If they drop courses after the change of schedule period but within the period to drop with the grade of "W," they will have that grade recorded on the transcript. There is no academic penalty associated with the "W."

Students who do not officially drop courses during the established time periods will receive the grades in the courses (A to F or FX) as determined by the instructors.

Withdrawal. Students with *documented* medical problems or *verified* circumstances beyond their control may petition the Director of The University Academic Advising Center (Lecture Hall), 410-830-2473, to withdraw without academic penalty or to reduce their course load after the established deadline. Documentation must accompany the petition. If the petition is approved, grades of "W" will be recorded. *Requests must be submitted prior to the beginning of final examinations.*

Sometimes new students who have not yet begun classes decide not to attend (cancellation) or continuing students need to withdraw completely from the University (withdrawal).

A. Cancellation of Enrollment. Newly admitted undergraduate students who decide not to attend the University before the first day of classes of the semester for which admission was approved *must* notify the Admissions Office in writing. Their admission file will be canceled accordingly, and they will be required to submit an additional application for any future entrance date.

B. Selective (Course) Withdrawals. Students may request selective withdrawals (while maintaining enrollment in other courses) by contacting either the University Academic

Advising Center (degree candidates) or the Office of Non-Traditional Undergraduate Programs (non-degree students). All such requests, accompanied by appropriate documentation, must be received **prior** to the beginning of final examinations. Those received after this point must be presented to the Academic Standards Committee. Appeals for retroactive selective withdrawals (i.e., received after final examinations begin) are **rarely** granted. For information on complete retroactive withdrawals, refer to item C below.

- C. **Complete (University) Withdrawals.** Unlike selective withdrawals, complete withdrawals are more likely to be given consideration by the ASC. Appropriate medical documentation must accompany all appeals.

Degree candidates who wish to withdraw from the university should obtain a withdrawal form from the University Academic Advising Center (Lecture Hall), complete the necessary information, and submit it to that office.

If a semester is in progress, students who withdraw after the last date to drop a course with a grade of "W" will earn the grade of "F" or "FX" unless withdrawal is for medical reasons or other extenuating circumstances.

- D. **Re-entering the University.** Previous Degree candidates who have missed one semester or more must apply for readmission through the Office of the Registrar. Forms are available outside the Registration Office in the Administration Building. The deadline for readmission is August 1 for the fall semester and December 1 for the spring semester.

Readmitted students must comply with the GUR's/GenEd that were published in the *Undergraduate Catalog* at the time that they were originally admitted to Towson, provided no more than 10 years have elapsed.

Students who withdraw from the University, enroll elsewhere, and return to Towson after having completed transfer course work *cannot* qualify for a transfer option (pre-1996 catalogs) or a transfer package (1996 and later catalogs). This option is available only upon initial admission. (Refer to the "Admissions" section of the *Undergraduate Catalog*.)

Students who officially withdraw must comply with the competency standards (required developmental courses) in effect at the time of readmission if the standards were not met prior to withdrawal.

CLASS STANDING

Students are classified according to the number of credit hours earned:

Freshmen	0-29.5 credit hours
Sophomore	30-50.5 credit hours
Junior	60-89.5 credit hours
Senior	90 and above

ATTENDANCE

Semester of Study. Each semester in which students register and do not cancel or withdraw before the first day of classes counts as a semester of study. Verified withdrawal for medical reasons or entry into the Armed Forces will not count as a semester of study.

Classroom Policy. STUDENTS ARE EXPECTED TO ATTEND ALL CLASSES. Each faculty member sets the policy on absences. Because policies vary, it is the responsibility of the student to understand clearly the absence policy of each instructor and to act accordingly. Students are expected to notify the Health Center and instructors by phone or in writing of any absence exceeding three days.

Important! Students who fail to appear for the first two class sessions, or the first session of evening classes, may lose their spaces in class. Instructors have the right to release these spaces to other students wishing to add the class to their schedules. **Students who lose their spaces must officially withdraw from the course**

through the Registrar's Office to avoid earning an "FX" grade for non-attendance. See the sections on "Changing a Schedule" and "Grades/Grading" for further information.

GRADES/GRADING

Grading System (4.00 scale, semester system) Effective September, 1976.

Grade		Quality Points Per Credit Hour
A	Superior	4
B	Good	3
C	Satisfactory	2
D	Less than satisfactory but allowable for credit, subject to the restriction specified under Degree requirement	1
F	Unsatisfactory (no credit)	0
FX	Non-attendance or failure to withdraw (no credit)	0
S	Satisfactory Not used in QPA calculation	0
U	Unsatisfactory (no credit) Not used in QPA calculation	0
I	Incomplete (no credit) Not used in QPA calculation	0
IP	in progress (not related to I grade) - applies to select graduate courses only Not used in QPA calculation	0
PS	Passed (course taken under PS/D/F option)	0
PE	Passed by examination Not used in QPA calculation	0
AU	Audit (no credit) Not used in QPA calculation	0
AUX	Audit (no credit) Failure to attend, Not used in QPA calculation	0

Grades of PS, PE, and S are equivalent to a grade of C or higher.

Quality Point Averages The semester Quality Point Average (QPA) is computed in a three-part process.* First, multiply the hours in a course by the quality points assigned to the grade earned in the course. Then, total the hours for all courses taken in the semester. Finally, divide the total number of quality points by the total number of quality hours to find the QPA.

* Using only courses in which grades of A, B, C, D, F, or FX were awarded.

Grades of I, IP, PS, PE, W, S, AU, AUX, and U are not used in computation of averages.

For example:

4 hours of A (4 points each)	16 points
4 hours of B (3 points each)	12 points
3 hours of C (2 points each)	6 points
3 hours of D (1 point each)	3 points
2 hours of F (No Credit Given)	0 points
2 hours of FX (No Credit Given)	0 points

18 Total quality hours 37 Total quality points

Dividing 37 by 18, the student's QPA for this semester is found to be 2.05.

The student's cumulative QPA is found by dividing the total quality points earned in all courses completed at Towson by the total number of quality hours at Towson (excluding from the computation

those credit hours attempted during the period September 1, 1973 to August 31, 1976 for which the grade of NC was assigned.) For example, a student has accumulated 76 quality hours and has earned a total 190 quality points. His or her cumulative Quality Point Average is 2.50.

The grades of S and U (satisfactory and unsatisfactory) are used primarily in those courses offered for development and selected other courses that have been recommended by the academic departments and approved by the Academic Standards and University Curriculum Committees. The grade of S indicates that work of C or higher has been completed and that the student has attained a level of competence sufficient to advance to the next course. A grade of U is given to students whose work is of D or F quality. S and U grades are not calculated in a student's QPA.

The grade of PS (Pass) is assigned to a course selected on the Pass/D/F option when students receive a grade of A, B, or C. Students who elect the Pass/D/F option and receive a grade of D or F will have the D or F recorded on the permanent record and used in calculation of the QPA.

The grade of PE is assigned to those courses passed under the credit for experience or prior learning option. All grades are recorded on students' permanent records but are not calculated in students' QPAs.

The grade of FX is calculated in students' QPAs. A grade of FX is given to those students who never attend a course, or who stop attending during the semester without officially withdrawing. (If students have officially withdrawn, a grade of W will appear on the final class roster.) When students attend most of the classes but miss the final examination without a legitimate excuse, they will receive a "zero" or F grade for the final examination and have that value or grade calculated with other grades earned during the semester to determine the final course grade.

The grade of W is administrative, non-punitive, and is not calculated in students' QPAs. A grade of W is given to students who officially withdraw from a course by the published withdrawal deadline each term. It is also given to students who obtain authorization, either through the University Academic Advising Center or from the Academic Standards Committee, to withdraw from a course or courses after the deadline. Such withdrawals must be based on documented medical difficulties or verifiable circumstances beyond the students' control.

The grade of I is given to students by their instructors when verifiable circumstances prevent the students from completing a course within the term. The I grade should be given only in cases where students have completed most of the term and have a reasonable expectation of successfully completing the work required. It should not be given at a point earlier in the term when a withdrawal is appropriate. For more information on the Incomplete grade, see the section immediately following.

Changing Grades and Changing Incompletes

Incompletes may be granted toward the end of the term and only for **verified** medical reasons or for **documented** circumstances beyond the control of the student. Earlier in the term, a withdrawal is more appropriate. The grade of I automatically becomes a grade of F at the end of the first full semester following the granting of an I unless changed to another letter grade. The grade of I may be extended by a faculty member for a period not to exceed an additional regular semester if the conditions for granting the original Incomplete still verifiably exist.

To grant this extension, the Change of Grade/Incomplete Form for changing an I to an I must be used. Although not part of the formal incomplete grading option, as approved by the Academic Standards Committee, Incomplete Grade Agreement Forms may be used by faculty members to establish a specific time by which a student must complete the work for a particular course. This form may be used to supplement the issuance of the incomplete grade on the Final Grade Roster. It allows a faculty member to designate a time **prior to the**

end of the semester of study to require the course work to be completed. These forms are available from the department's secretary and are to be retained by the faculty member with a copy being issued to the student. Faculty members using the Incomplete Grade Agreement Form should also note in the comments column on the Final Grade Roster the actual date by which the work is due (e.g., work due on July 1).

It is the responsibility of students to complete the work required by the end of the next regular semester (fall, spring) in order for the Incomplete to be converted to a regular grade. *Students should not repeat the course in which the Incomplete was given.* Instructors may specify an earlier time by which the work required is due in order to remove the Incomplete. Any Incomplete grade that is not resolved by the end of the next full semester of study, excluding summer and Minimester sessions, is converted to an F grade, and is calculated in students' quality hours and QPAs.

Grade changes, excluding I grades and repeated courses, must be made within one year. After one year, requests for grade changes may be made only for verifiable medical reasons and by petition to the Academic Standards Committee.

Graduating seniors must resolve any outstanding Incomplete grades and have their records adjusted for repeated courses **within six weeks after their date of graduation**. Specific dates for each graduating class are included in the correspondence from the Graduation Office.

Academic Clemency/Unsuccessful Semester The following guidelines determine the Academic Standards Committee's approval of the Declaration of an Unsuccessful Semester:

- Five full academic years must have elapsed since the semester in question;
- Students must have completed at least 24 credit hours of C work at Towson University since the semester in question;
- Students must have attained at least a 2.00 QPA for all credit hours attempted since the semester in question.

Disagreements Related to Grading Students who feel an earned grade is unjust must address their disagreements first to their instructor, who is primarily responsible for assigning grades. If the matter is not satisfactorily resolved through this approach and the issue warrant further consideration, students may then direct an appeal through the following channels: department chair/program coordinator, college dean, Office of Student Life.

Repeating Courses When a course is repeated, students will receive credit for the course only once. Only the higher of the two grades will be calculated in the Quality Point Average. The lower grade will remain on the record with the letter "R" preceding (e.g., "RF," "RX," "RD," etc.) to indicate the course has been repeated. Adjustments are not automatic; upon completion of the *second* attempt, students *must* submit a Repeated Course Form to the Records Office (AD 221) in order to bring about these adjustments to the record.

Students may repeat a course *only once* where credit has been earned or a grade of "F" or "FX" has been earned, except by *prior* approval of the Academic Standards Committee. The Committee will *not* consider petitions to take a course for a *third* time unless students currently possess a minimum Quality Point Average of 2.00. Grades of "W" are administrative grades and are *not* considered as part of the repeated course procedure. Courses that have been accepted previously as transfer credit at TU or have been attempted or completed for credit at TU may *not* be repeated at other institutions.

NOTE: STUDENTS WHO FAIL TO OBTAIN PRIOR PERMISSION FROM THE ACADEMIC STANDARDS COMMITTEE TO MAKE A THIRD ATTEMPT OF A COURSE MAY

NOT ADJUST THEIR RECORDS FOR THAT ATTEMPT. UNAUTHORIZED THIRD ATTEMPTS WILL NOT APPLY TOWARD THE DEGREE. The grade earned in the *second* attempt will be used in calculation of the overall average.

Courses in which low or failing grades were earned at Towson **MUST** be repeated at Towson in order for the record to be adjusted and the QPA to be recalculated. Grades earned at other institutions in courses for which grades were also earned at TU *do not* adjust grades earned at Towson, nor do they alter the cumulative QPA.

GOOD STANDING AND SATISFACTORY ACADEMIC PROGRESS

Students are considered to be in good academic standing and making satisfactory academic progress toward the degree if they are permitted to continue enrollment at the University based on the guidelines below. Students who have been **academically suspended** and are later **readmitted on probation** are not considered to be in good academic standing and *might* not be eligible for participation in inter-collegiate athletics, financial aid, housing, or certain extra-curricular activities.

To remain in good academic standing, students must possess a minimum cumulative Quality Point Average based on the number of earned hours (EHRS) or the number of quality hours (QHRS) attained, whichever is higher, as indicated below:

MINIMUM QUALITY POINT AVERAGE REQUIRED

Credits (Includes Towson Credits and accepted transfer credits)	Minimum QPA
1-29.5	1.50
30-59.5	1.75
60 and above	2.00

FAILURE TO REMAIN IN GOOD STANDING

Students who fall below the level required for good academic standing will be subject to the following actions:

1. **Academic Warning:** The first time degree candidates fail to attain the minimum quality point average required, according to the above table, they receive an academic warning and must receive additional academic advising. They must attain the minimum QPA required by the end of the next semester of attendance or be **academically suspended**. If no further action is taken, the notice of academic warning will be removed from the permanent record upon graduation. Eligibility for housing, financial aid, and participation in intercollegiate athletics will be determined by the appropriate departments according to their established criteria. In accordance with policy, students who are **readmitted on warning** must also attain the minimum QPA required by the end of the semester of readmission or be **academically suspended**.

Regardless of the CQPA, freshmen and sophomores on academic warning who earn at least a 2.00 average in the semester based on at least 12 earned hours will be automatically continued on warning for one semester.

2. **Academic Suspension:** Students failing to attain good standing in any semester following academic warning are **academically suspended** and may *not* attend the University for one semester and the intervening summer/Minimester sessions. If students complete course work elsewhere **while on suspension**, Towson will *not* accept that work. Work remaining to resolve any Incomplete grades may be completed during suspension. Academic suspension is noted *permanently* on students' academic records.

3. **Academic Probation:** After the suspension ends, students may be readmitted on **academic probation**, during which time they may enroll for a maximum of 13 credits. They must also receive additional advising during this period and may *not* register without written clearance from the University Academic Advising Center. **Academic probation** is noted *permanently* on students' academic records.

Students on **academic probation** have three academic years or an additional 24 earned hours, whichever comes first, to attain good academic standing. If students attain good academic standing during probation and subsequently fall below the minimum requirements for good academic standing, they will be given a **one-semester** exception during which good academic standing must be attained. If they do not, they will be academically dismissed. Otherwise, they are considered to be on **academic probation** until they have either graduated or are academically dismissed (see below).

While on **academic probation**, students may *not* complete course work elsewhere for transfer to Towson.

4. **Academic Dismissal:** Students failing to attain good academic standing after the period of **academic probation** will be academically dismissed. **Academic dismissal** is noted *permanently* on students' academic records.

TRANSFERRING WORK TO TOWSON

For additional information, see the "Undergraduate Admissions" section of the *Undergraduate Catalog*.

Note: Only currently enrolled degree candidates in good academic standing are eligible to transfer course work.

Policies Pertaining to Transfer Credit:

1. Towson students who wish to take courses at other accredited institutions with the intent of applying those credits toward a degree at Towson must complete a Petition to Transfer Credit Form, available outside Room 223 in the Registrar's Office. The petition may require the signature of the chair of the department in which the equivalent course is offered at Towson. Petitions must be completed and returned to the Registrar's Office and approved by the Academic Standards Committee *before* registration for the course(s) at another institution.
2. Only the courses and credits completed at other institutions are transferable to Towson. Grades and quality point averages earned at other institutions are *not* transferable.
3. Credit is accepted by Towson for courses completed at regionally accredited colleges or universities. This credit will count toward graduation but will *not* be used in calculating the academic average required for graduation. Courses will transfer to Towson as they were taken at the host institution. For example, if a student completes a 200-level course at the host institution and transfers it to TU, the course will transfer as 200-level—even if the course's equivalent at TU is 300- or 400-level.
4. Courses transferred from a two-year institution cannot be used to satisfy the Advanced Writing graduation requirement. Writing courses taken at four-year accredited institutions may be considered as meeting this requirement upon petition by the student for evaluation by the appropriate academic department or, where necessary, by TU's English Department.
5. **Transfer students:** Courses that have been accepted previously for transfer credit at TU or have been attempted or completed for credit at TU may *not* be repeated at other institutions with the purpose of transferring the course to TU. Courses in which a grade of D or higher has been earned at accredited Maryland institutions are transferable. However, courses in which a D grade was earned and transferred to Towson cannot be applied toward a major or minor program. A grade of C or higher is required for major credit. Students **must** repeat at Towson any

course previously transferred with a grade of D in order to meet major requirements; the number of credits repeated will increase the number of credits needed to fulfill graduation requirements. For example, if a three-credit course that transferred to Towson University with a grade of D is repeated at Towson, students must earn a minimum of 123 credit hours to be eligible for graduation. (See section on "Repeating Courses.")

6. **Native students:** Students may not fail a course at TU, repeat it at another college, and expect the course to transfer to the University. Courses attempted at Towson may **not** be repeated at other institutions with the purpose of receiving credit at TU or adjusting the Towson record. (See section on "Repeating Courses.")
7. With prior permission from the Academic Standards Committee, students may transfer up to a total of 64 credits from two-year institutions at any time until they have attained 90 credits at TU.
8. With prior permission from the Academic Standards Committee, students with fewer than 90 credits may take courses at an accredited four-year institution, for the purpose of transfer.
9. Students are expected to complete the final 30 credits toward their degrees at Towson. Exceptions may be granted in cases of documented extraordinary circumstances. Students **must** petition the Academic Standards Committee to transfer work after having earned 90 credits. Petitions must be presented *before* students register for courses at other institutions. Students with 90 or more credits seeking to transfer courses required of the major or minor program must include with the petition a brief note from the department chair supporting the request and accepting the course and credits toward the major or minor.

TRANSCRIPTS OF ACADEMIC RECORDS

The office of the Registrar can normally process a transcript request within three working days, except during periods of high demand at the end of semester. During these periods, transcript requests may take longer to process. Regular transcript requests will be processed without charge. "Rush" transcripts, mailed within 24 hours of the request, require a \$10 service fee. Towson requires a request to be in writing. Forms are located at the Records Office or you may send a letter to Towson University, 8000 York Road, Towson, Maryland 21252. A faxed letter is also acceptable; Our fax number is 410-830-3443, and the E-Mail address is "Transcript@Towson.edu".

GRADUATION

Students who have successfully completed *all* requirements for a Bachelor of Arts, Bachelor of Science, or Bachelor of Fine Arts degree are eligible for graduation. Candidates for graduation will find the deadlines to apply listed each semester in the Schedule Booklet; students should begin planning for graduation at least a year in advance so they can meet the deadlines.

When students have earned approximately 75 credits, the University Academic Advising Center prepares an audit of their progress toward fulfilling the GenEd requirements. As a result of the Junior Audit, students usually have at least a year to meet any outstanding requirements. Some academic departments will do an audit of major requirements at the same time.

Applications for graduation are available in the Registrar's Graduation Office, Admin. 232.

Important! Students *must* apply for graduation to begin the "Graduation Clearance" process. The Schedule Booklet lists the specific deadlines each semester. Also refer to the "University Curriculum" section of this *Catalog*.





The College of Graduate and Extended Education

The team of administrators and staff of the College of Graduate and Extended Education is committed to providing outstanding service and premier quality education to all the students it serves. These students include those seeking advanced degrees, as well as those seeking professional development and lifelong learning, in conventional classroom settings or through distance education, cooperative education or internship experiences.

The Graduate School prepares qualified and dedicated students for career advancement, leadership positions and further graduate study. Its graduate programs satisfy professional and personal needs of students and fulfill the demand for advanced education in the professions. Programs are offered at times convenient to employed students, and many students also take advantage of graduate offerings without enrolling in degree programs. Twenty-four master's degree programs and certificates are available in the fields of education, arts and sciences, and fine arts.

The graduate faculty includes recognized scholars and practitioners in many fields, who are committed to excellence in teaching in a scholarly environment. The classroom, library, clinical and faculty assets of the graduate programs are supplemented by a community rich in cultural, artistic, social, technological and scientific resources.

The College offers non-traditional learning formats such as directed independent study, a January mini-session, television courses, internships and cooperative education, and innovative distance education services to graduate, undergraduate, and non-degree students. The College also responds to the educational needs of business, industry and professional organizations through a wide assortment of professional development programs, including customized programs tailored to individual organizations. Lifelong learning opportunities such as Elderhostel and the English Language Center meet the community need for continuing education.

Craig Weidemann, Dean
Frederick C. Arnold, Associate Dean
College of Graduate and Extended Education

GRADUATE SCHOOL OFFICE
Administration Building, Room 248
(410) 830-2500

BUSINESS AND INDUSTRY OUTREACH OFFICE
7800 York Road
(410) 830-4737

GRADUATE SCHOOL

Programs

Master of Arts

Geography and Environmental Planning

Liberal Studies

Mass Communication

Psychology

Master of Arts in Teaching

Master of Education

Art Education

Early Childhood Education

Elementary Education

Reading

Secondary Education

Master of Fine Arts

Studio Arts

Theatre

Master of Science

Biology

Computer Science

Health Science

Human Resource Development

Instructional Technology

Music Education

Occupational Therapy

Professional Writing

Speech-Language Pathology and Audiology

Master of Music

Performance

Certificate of Advanced Study in School Psychology

Certificate in the Application of Orff, Kodaly and Dalcroze

ADMISSION

Admission to the Graduate School at Towson University is granted to applicants whose academic and personal qualifications give promise of success in graduate study. The applicant must hold a baccalaureate degree from a regionally accredited college or university and satisfy minimum grade point average requirements.

Students seeking admission to a graduate degree program, or to take courses carrying graduate credit, must apply prior to first enrollment. Applicants must file an application together with all credentials and official transcripts of all college work. Some programs have selection cut-off dates and admit students on a competitive, space available basis.

Graduate School Office Hours

The Graduate School office is open each weekday (except for scheduled holidays) from 8:30 a.m. to 5:00 p.m. The office is also open Monday through Thursday evenings until 7:00 p.m. During registration, the office is open in the evening according to the registration schedule. Students may arrange for appointments with the Graduate School staff at other hours.

The Graduate Catalog

The *Graduate Catalog* contains the academic regulations governing graduate studies at Towson University. It also includes information regarding individual master's degree programs, course offerings and the application process. A copy may be obtained by calling or writing to the Graduate School Office. A *Schedule of Courses* booklet, listing dates and times of courses for the coming semester and containing registration material is available on campus or from the Graduate School Office immediately prior to registration.

Correspondence and Information

All correspondence and requests for information concerning graduate study should be addressed to:

Associate Dean, Graduate School

Towson University

Towson, Maryland 21252

SUMMER SESSION

The summer session includes day and overlapping evening terms. Workshops, short-intensive courses and courses necessary for teacher certification are special features of the summer session. Graduate courses and a large variety of undergraduate courses necessary to complete the General Education requirements and undergraduate majors are offered as well.

JANUARY SESSION

The January session, or minimester, is designed to offer both the student and the professor an opportunity to explore a nontraditional educational experience. Subject matter is usually organized around a highly specific theme. Both the thematic approach and the concentrated time span encourage a depth of study not possible during the regular semester.

Regular graduate and undergraduate courses are offered as well as independent study, directed readings, practicums, travel-study, seminars and field study. Most minimester courses are offered during the day.

The student is restricted to no more than four credits per minimester. Credits for the minimester are equivalent to credits earned during the regular semester.

Graduate students as well as undergraduate non-degree students and part-time degree candidates are eligible to register for the January session.

Fees will be assessed on a per-credit basis payable at the time the student registers for the course.

Registration for most courses takes place in December. The exact times are advertised through the publications of the university.

CAMPUS CENTERS

Downtown Baltimore: University of Maryland System colleges and universities cooperatively manage a center in Downtown Baltimore at 10 Hopkins Plaza. The Downtown Baltimore Center offers convenient access for the downtown business community and offers credit and non-credit courses, workshops, seminars, and special events.

Harford County Higher Education and Applied Technology (H.E.A.T.) Center: Graduate programs in Education and Computer Science are offered at this Harford County location.

Southern Maryland Higher Education Center (S.M.H.E.C.): At this center, located in St. Mary's County, Towson provides courses leading to graduate degrees in Education.

For the latest information on courses and seminars offered by Towson University at these centers, please call (410) 830-3534.

TELEVISION COURSES

In association with the Maryland Center for Public Broadcasting, courses are offered through the Maryland College of the Air. Several three-credit courses are offered each semester. Instruction will be given in 30 television programs broadcast twice a week for 15 consecutive weeks on the public television stations. There are four required class meetings on campus. Students may register for the television courses through telephone registration or at in-person registration. Consult the schedule booklet.

NON-CREDIT PROGRAMS

A wide variety of courses, seminars, contract training programs, professional development programs and conferences are offered on a non-credit basis. These courses typically do not require exams or research papers. Non-credit learning opportunities include contract training services for business, industry, health care, and governmental firms, and a variety of continuing professional education programs.

Continuing Education Units (CEU) are awarded in selected non-credit offerings and provide the participant with a uniform, nationally recognized certification of participation. For qualifying programs, one CEU is awarded for each ten contact hours of instruction.

ELDERHOSTEL PROGRAM

The Elderhostel program, inspired by the youth hostels and folk schools of Europe, is a network of over 1,800 colleges and universities in 50 states and abroad which offer special low-cost, short-term residential academic programs for adults over the age of 60. Towson University began its involvement with this national, highly regarded program by offering several one-week-long programs during July, 1982. Participants in the on-campus program are housed in a residence hall, take their meals in a campus dining facility, and participate in a wide variety of on- and off-campus extracurricular activities. Each week, participants are offered three liberal arts non-credit courses of normal undergraduate quality, taught by regular faculty members of the university. Registration for the program is handled by the national Elderhostel office, located at 75 Federal Street, Boston, MA 02110-1941. Limited commuter space for area residents is also available. For further information about the TU Elderhostel *summer* on-campus program, call (410) 830-3437.

TU Elderhostel continues to offer additional weeks of programming in *fall*, *spring*, and *summer* seasons at a lovely commercial facility *off-campus*, a short drive from TU. For further information about the fall/spring program, call 830-3437.

The large total number of Elderhostel programs qualifies TU as an Elderhostel "Supersite," a designation of which few American colleges can boast.

ENGLISH LANGUAGE CENTER

Media Center 201, (410) 830-2552

The English Language Center offers intensive English instruction of 20 hours per week for students who are preparing for admission to the University. Part-time attendance is available for permanent residents of the U.S. The Center is also open to students who are not preparing for university study; however, the course objectives remain academically oriented.

TRAINING FOR ORGANIZATIONS AND INDIVIDUALS

The Office of Business and Industry Outreach creates custom-designed training programs for business, industry, governmental and non-profit agencies. These programs are conveniently held at the worksite or on campus. The range of offerings includes business and technical writing, oral and written communications, supervisory and management development, customer service, effective listening, change management, and computer software applications. Programs in many other areas are also available. For additional information call Business and Industry Outreach at (410) 830-4737.

Contract training serves organizations; continuing professional education serves individuals. Workshops, seminars, conferences, and institutes provide learning opportunities for people who wish to enhance their skills and abilities as professionals; who wish to obtain certification, licensure, or a professional designation; or who wish to keep pace with the demands of a rapidly-changing business environment. Enrollment is typically open to the general business and professional communities. A variety of programs are offered throughout the year.

To serve the greater metropolitan region, workshops are held at centers in downtown Baltimore and other locations, as well as on the Towson campus. Call (410) 830-4737 for further information.

CAREER CENTER

7800 York Road, Suite 408, (410) 830-2233

Information about the career center can be found in the **Student Life** section of this Catalog.



MISSION STATEMENT

The College of Business & Economics faculty and staff have developed and committed themselves to the following Mission Statement.

We will:

Provide a superior, comprehensive business education with an international perspective that prepares students for positions of responsibility and leadership in business and society.

Create dynamic partnerships beyond the University that promote economic and societal development and combine them with scholarly activities to impact every aspect of learning in CBE.

Be entrepreneurial, innovative and market-driven to carry out the mission while maintaining the highest academic standards.

THE COLLEGE OF BUSINESS AND ECONOMICS (CBE)

...will provide you with:

- * a superior, comprehensive business education with an international perspective maintained at the highest academic standards
- * preparation for positions of responsibility and leadership in business and society
- * proficiency in the Knowledge, Skills, and Attitudes in 9 employer-sought areas

... will create opportunities for you to participate in:

- * a dynamic learning environment that is career-focused
- * partnerships beyond the university that promote economic and social development
- * personalized service, advising, and mentoring that matches your interests and abilities to workplace needs
- * combinations of outside world and scholarly activities that impact every aspect of your learning

... and together, we will pursue our mission by being:

- * market-driven
- * entrepreneurial
- * innovative
- * career-focused

... all of which directly quotes the Mission Statement developed by the entire faculty of our College.

Alan Leberknight, Dean
Raymond J. Castaldi, Associate Dean
The Entire CBE Faculty and Staff

CBE AREAS OF STUDY

Accounting
Business Operations
Decision and Information Systems
Economics
Entrepreneurial Marketing
Entrepreneurship
Finance
Human Resources
International Business

International Management
International Marketing
Management
Market Research
Marketing
Personal Finance
Promotion

DEAN'S OFFICE

Room 218
Stephens Hall
Towson University
Towson, MD 21252
Phone: (410) 830-3342
Fax: (410) 830-3664
E-Mail: CBE@TOWSON.EDU
WWW Site: <http://www.towson.edu/~cbe>

Please call the CBE Student Center at (410) 830-3496 for further information.

PROFILE OF A COLLEGE OF BUSINESS & ECONOMICS GRADUATE

The College of Business and Economics understands the need for its graduates to be broad-based and ready to perform immediately upon entering the job market, both as individuals and in teams. Therefore, its curriculum contains concrete, measurable, and attainable objectives throughout. As a result, each CBE graduate is expected to perform successfully in the following 9 areas of Knowledge, Skills, and Attitudes (KSAs):

1. COMMUNICATION - WRITTEN, SPOKEN, GRAPHIC, and ELECTRONIC

- * Write articulate, persuasive, and influential business reports, proposals, letters
- * Make articulate, persuasive, and influential individual and team presentations
- * Develop graphic, spreadsheet, and financial analysis support for positions taken
- * Display presentation skills
- * Generate appropriate visual aids
- * Use correct written structure, spelling, grammar, and organization
- * Articulate another's viewpoint through verbal and non-verbal interpretation
- * Know methods of resolving interpersonal and team conflicts
- * Negotiate effectively

2. THINKING - CRITICAL, CREATIVE, and INTEGRATED

- * Use problem-solving techniques
- * Use adaptable, flexible thinking
- * Use critical thinking to produce comprehensive, supported, integrated conclusions
- * Use creative thinking methods to produce ideas
- * Distinguish (1) fact from opinion and (2) critical from non-critical information
- * Develop several workable solutions to a problem
- * Show common sense
- * Know how to learn (learn to learn)

3. TECHNOLOGY

- * Use software for writing, spreadsheets, data bases, presentations, and decision support
- * Demonstrate self-taught use of a second software package
- * Use E-mail, WWW, Internet, and other contemporary electronic services

4. ETHICS and VALUES

- * Consistently accept responsibility for one's own actions
- * Display ethical conduct and honor-system behavior
- * Apply ethics in reaching business recommendations
- * Promote benefits of good ethical behavior while recognizing practical ethical challenges
- * Display a "win-win" attitude

5. ACCREDITED BUSINESS CONTENT

- * Know and apply the content in one's major
- * Apply and integrate accumulated cross-discipline concepts
- * Value the relevance of each business discipline in today's business world

6. DIVERSITY - INTERNATIONAL and DEMOGRAPHIC

- * Apply international concepts and contemporary issues to business situations
- * Apply domestic diversity concepts and contemporary issues to business situations
- * Show sensitivity to other cultures' views, values, and business customs
- * Discuss relevant global business developments
- * Interact as a business professional with people of other cultures and sub-cultures

7. PRACTICAL EXCELLENCE

- * Demonstrate effective team skills
- * Display professional business behavior and appearance
- * Professionally mingle and network
- * Self-motivate and self-manage time and tasks
- * Use estimates, analogies, and examples
- * Continue development of one's self-esteem and "can-do" attitude

8. LEADERSHIP, ENTREPRENEURSHIP, and COMMUNITY SERVICE

- * Demonstrate group leadership
- * Understand one's own risk-taking profile
- * Differentiate between a leader, a manager, and an entrepreneur
- * Perform community service
- * Appreciate that leadership potential exists in everyone

9. JOB EXPERIENCE and CAREER DEVELOPMENT

- * Show evidence of a quality, mentored, reflective professional experience
- * Organize a persuasive, informative resume
- * Create a portfolio that displays evidence of employability
- * Demonstrate effective job search and interview skills
- * Assume responsibility for one's own career goal-setting and life-long learning

College of Business and Economics

Towson University is the only Maryland state university with both its Business and Accounting programs accredited by AACSB (American Assembly of Collegiate Schools of Business).

PROGRAMS AVAILABLE

- Major in Accounting
 - Collegiate Major
 - Pre-Master's Major
- Major in Business Administration
 - Areas of Study in:
 - CBE Individualized (track)
 - Economics (track)
 - Finance (concentration)
 - International Business (track)
 - Management (concentration)
 - Marketing (concentration)
- Major in Economics
 - Economics
 - Economics and Geography Double Major
 - Economics and Mathematics Double Major
 - Economics and Political Science Double Major
- Minor in Business Administration
- Minor in Economics

TRANSFER POLICIES

Lower-Level Courses: Students planning to transfer into the Business Administration or Accounting majors at Towson University are encouraged to take Principles of Accounting I and II, microeconomics and macroeconomics. Students transferring from a Maryland community college should inquire at that institution's transfer office regarding the Recommended Transfer Program (RTP) for the Business Administration or Accounting major at TU. Students may also contact the TU's CBE Student Center to verify transfer courses. [Altogether, there are 7 prerequisite courses to be completed with a grade of "C" or better in order to take the Business Administration major's first course, CBEC 301 Business Cornerstone.] **Important Note: After transferring to Towson University,** students are encouraged to take such courses as finance, marketing and management since these are upper-division courses at the University. Courses completed at a community college or four-year college that are offered at TU as upper-level courses must be validated in order to be recognized as meeting upper-level requirements. Validation generally requires that another specified course in the same discipline be completed with a grade of "C" or better at TU.

Upper-Level Courses: A four-year college's transferred course that possesses "level and content equivalency" of a TU course may be used to satisfy a core/elective requirement with the approval of the major department. Only one transferred course will be accepted in fulfillment of a concentration requirement. A student intending to transfer a course must provide a course description from the other college's catalog. Contact the specific office (Accounting, Business Administration - CBE Student Center, or Economics) regarding policy and procedures regarding transfer of credits for upper-level accounting, business, and/or economics courses. In order to graduate from Towson University with a major from the College of Business & Economics, transfer students must complete at least 30 credits of upper-division courses in that major at Towson University.

NOTE: Courses taken at a community college or other two-year school cannot transfer as upper-level credits.

----- *Invest in Yourself at CBE* -----

Department of Accounting

Professors: MARTIN, STEEDLE (*Chair*)

Associate Professors: CASTALDI, HOLTER, MALOO, NEIL, ROSENBERG, SEGANISH, STEWART

Assistant Professors: BUCHOFF, HAMMER, PERRIER

Senior Lecturers: MAAS

OFFICE: Ann Hunt, 102 Stephens Hall

Phone: (410) 830-2227 **Fax:** (410) 830-3641

E-Mail: HUNT-A@TOWSON.EDU

website: <http://www.towson.edu/~cbe>

WHY STUDY ACCOUNTING?

- * To prepare for college-graduate entry-level jobs as: cost accountant, staff accountant, accounting clerk, and tax preparer.
- * To prepare for the Master's Program in Accountancy and the CPA Exam in order to hold jobs as: auditors, tax advisors, system analysts, business and personal accountants, and business and personal financial advisors. (Note: The State of Maryland requires 30 credits beyond the B.S. to qualify to sit for the CPA exam, beginning in July, 1999. Students who are not Maryland residents should check their own state's requirements.)

MISSION STATEMENT

The Accounting Department:

- * provides a high-quality accounting education built upon a sound business education and a comprehensive foundation in the liberal arts and sciences that prepares students for positions of responsibility and leadership in accounting, business and society
- * creates student and faculty learning experiences through a combination of scholarly activities and partnerships with the accounting profession and business community
- * is innovative and market-driven in carrying out the mission while maintaining the highest academic standards.

DISTINCTIVE FEATURES

- * Student Chapter of Beta Alpha Psi
- * Student Chapter of Institute of Management Accountants
- * Student Chapter of National Association of Black Accountants
- * Accounting Advisory Board (of business people)
- * Accounting Annual Open House
- * Annual Department of Accounting Awards Banquet
- * Student Scholarships and Awards:
 - * Dean's Scholarships
 - * CPA Review Scholarships
 - * MACPA Outstanding Achievement in Accounting Award
 - * American Society of Women Accountants Certificate of Achievement
 - * Baltimore Association for Financial Planning Scholastic Achievement Award
 - * Financial Executives Institute Academic Honors
 - * Sylvia Bernstein Prize for Excellence in Accounting
 - * Russell E. Denison Annual Award for Excellence in Accounting
- * Outstanding Accounting Student Achievement Award

PROGRAMS AVAILABLE

Accounting Collegiate Major

Accounting Pre-Master's Major

MAJOR REQUIREMENTS

(See *Accounting Freshman and Sophomore Suggested Sequence.*)

(See *Accounting Junior and Senior Suggested Sequence.*)

Requirements for Continuation of the Major:

- * APAT (Accounting Program Admissions Test) score: 70th percentile or above
- * Quality Point Average (QPA) 2.50 or higher in all courses completed when applying
- * Quality Point Average (QPA) 2.50 or higher in all Accounting courses completed when applying
- * Completion of:
 - 1) ECON 205 or MATH 231 (Statistics) with grade of "C" or better
 - 2) an ANTH or PSYC or SOCI course
 - 3) a POSC course

Application Procedure: After completing nine (9) credits of Accounting and successfully passing the APAT exam, complete the Accounting application, which is available in the Accounting Department (102 Stephens Hall).

Graduation Requirements: *All major requirements must be completed with a grade of "C" or better.

*ATAG (Achievement Test for Accounting Graduates) score: 50th percentile or above

Lower-Level Prerequisite Courses (33 credits)

ACCT 201 Accounting Principles I (3) (or Honors ACCT 211)
 ACCT 202 Accounting Principles II (3) (or Honors ACCT 212)
 LEGL 225 Legal Environment of Business (3)
 LEGL 226 Business Law (3)
 COMM 131 Fundamentals of Speech Communication (3)
 COSC 111 Information & Technology for Business (3)
 ECON 201 Microeconomic Principles (3) (or Honors ECON 203)
 ECON 202 Macroeconomic Principles (3) (or Honors ECON 204)
 ECON 205 or MATH 231 Statistics (3)
 1 ANTH or PSYC or SOCI course
 1 POSC course

Upper-Level Business Core Requirements (30 credits)

CBEC 301 Business Cornerstone (3)
 ECON 305 Survey of International Economics (3)
 FIN 331 Principles of Financial Management (3)
 MKTG 341 Principles of Marketing (3)
 MNGT 355 International Business (3)
 MNGT 361 Management and Organization Theory (3)
 MNGT 363 Decision Sciences I (3)
 MNGT 365 Principles of Operations Management (3)
 MNGT 437 Information Technology (3)
 MNGT 481 Business Strategy and Policy (3)

Upper-Level Accounting Core Courses (12 credits)

ACCT 301 Intermediate Accounting I (3)
 ACCT 302 Intermediate Accounting II (3)
 ACCT 303 Intermediate Accounting III (3)
 ACCT 341 Cost Accounting I (3)

Choice of Major:

Accounting Collegiate Major (15 credits)

ACCT 497 or CBEC 460 Accounting Internship or Professional Experience (3)

4 ACCT elective courses selected from:

ACCT 321 Advanced Accounting I (3)
 ACCT 322 Advanced Accounting II (3)
 ACCT 342 Cost Accounting II (3)
 ACCT 361 Tax Accounting I (3)
 ACCT 362 Tax Accounting II (3)
 ACCT 3xx Operational Controls (3)
 ACCT 401 Auditing (3)
 ACCT 402 Auditing II (3)
 ACCT 4xx International Accounting (3)
 ACCT 4xx Governmental and Not-for-Profit Accounting (3)

Accounting Pre-Master's Major (12 credits)

ACCT 321 Advanced Accounting I (3)
ACCT 361 Tax Accounting I (3)
ACCT 401 Auditing I (3)
1 ACCT elective selected from:
ACCT 322 Advanced Accounting II (3)
ACCT 342 Cost Accounting II (3)
ACCT 362 Tax Accounting II (3)
ACCT 402 Auditing II (3)

ACCT 4xx International Accounting (3)
ACCT 4xx Governmental and Not-for-Profit Accounting (3)
Suggested but not required: If you do not have accounting or business experience, consider adding ACCT 497 (Accounting Internship) or CBEC 460 (Professional Experience).

----- Invest in Yourself at CBE -----

ACCOUNTING MAJOR
FRESHMAN AND SOPHOMORE SUGGESTED SEQUENCE

<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 3</u>	<u>Semester 4</u>
GEN ED II.B.2 (see note)	GEN ED I.A OR GEN ED I.B COSC 111	GEN ED II.A.1	GEN ED II.A.1
GEN ED I.B COSC 111 or GEN ED I.A	GEN ED II.D (see note)	GEN ED II.B.1	GEN ED I.E
GEN ED I.C MATH 111 (if needed) MATH 231	ECON 205 or MATH 231 (unless taken) or LEGL 225	LEGL 225 (unless taken) or LEGL 226	GEN ED II.C.1
GEN ED II.C.2 ECON 201 (203 Honors)	ECON 202 (204 Honors)	GEN ED II.B.3 COMM 131	Cost Acctg. I ACCT 341
ACCT 201 (211 Honors)	ACCT 202 (212 Honors)	Intermediate Acctg I ACCT 301	Intermediate Acctg II ACCT 302

NOTE: Needed: 1 POSC, usually taken as either II.B.2 or as II.D.
Needed: 1 ANTH or PSYC or SOCI, usually taken as either II.B.2 or as II.D.

Prerequisites (with a grade of "C" or better):

ACCT 201 ECON 201 LEGL 2 26 1 POSC
ACCT 202 ECON 202 COMM 131 1 ANTH or PSYC or SOCI
LEGL 225 ECON 205 or MATH 231
COSC 111 (MATH 111 or equivalent) QPA 2.50; ACCT QPA 2.50; 70% APAT TEST

OPEN CHOICES: See your advisor to make the most appropriate selections.

After you have taken the above sequence, you still need to complete the following GEN ED categories:

I.D - already required as part of the Accounting upper-division program.

II.A.2 - (open choice), often taken in Junior or Senior year.

II.C.3 - (open choice), often taken in Junior or Senior year.

NOTE: Based on course availability, your needs and your preferences, your selected sequence will probably vary from the sequence demonstrated here.

ACCOUNTING MAJOR
JUNIOR AND SENIOR SUGGESTED SEQUENCE

<u>Semester 5</u>	<u>Semester 6</u>	<u>Semester 7</u>	<u>Semester 8</u>
Intermediate III ACCT 303	Tax Acctg I ACCTG 361	Auditing I ACCT 401	ACCT Elective ACCT 401
Cornerstone CBEC 301	Advanced Acctg I ACCT 321	Info Technology MNGT 437	Bus Strat/Policy MNGT 481
Advanced Comp GEN ED I.D	Decision Sciences I MNGT 363	Operations Mgmt MNGT 365	Profess'l Exper. ACCT497/CBEC460 or open choice
Management MNGT 361	Marketing MKTG 341	Intern'l Business MNGT 355	Sci.Tech.Society GEN ED II.A.2
Finance FIN 331	Survey Int'l. Econ ECON 305	Free Elective	Cultural Diversity GEN ED II.C.3

Business Administration

DISTINCTIVE FEATURES

- * College of Business and Economics Business Advisory Board
- * Coordinators for Student Focus, Program Quality, and Faculty Development

PROGRAMS AVAILABLE

*Major in Business Administration with Areas of Study in:

- Economics
- Finance
- International Business
- Management
- Marketing
- CBE Individualized

*B.A. Degree Option

* Minor in Business Administration

MAJOR REQUIREMENTS

(See *Business Freshman and Sophomore Suggested Sequence.*)

(See *Business Administration Junior and Senior Suggested Sequence.*)

Requirements for Continuation of the Business Administration Major:

CBEC 301 (Business Cornerstone) with a grade of "C" or better. In order to enroll in CBEC 301, a student completes CBE Lower-Level Prerequisites with a grade of "C" or better. These 7 prerequisites are:

ACCT 201 and 202	Accounting Principles I and II (or ACCT 211 and 212 Honors)
ECON 201 and 202	Microeconomics and Macroeconomics (or ECON 203 and 204 Honors)
COSC 111	Information & Technology for Business
LEGL 225	Legal Environment of Business
ECON 205 or MATH 231	Statistics

Application Procedure: Complete the Business Administration application and the Area of Study form, which are available in the CBE Student Center (112 Stephens Hall) when you are completing the 7 CBE Lower-Level Prerequisites.

Graduation Requirements: All major requirements must be completed with a grade of "C" or better.

Lower-Level Prerequisite Courses (21 credits)

ACCT 201	Accounting Principles I (3) (or Honors ACCT 211)
ACCT 202	Accounting Principles II (3) (or Honors ACCT 212)
LEGL 225	Legal Environment of Business (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (3) (or Honors ECON 203)
ECON 202	Macroeconomic Principles (3) (or Honors ECON 204)
ECON 205 or MATH 231	Statistics (3)

Upper-Level Core Requirements (39 credits)

CBEC 301	Business Cornerstone (3)
Note: The GEN ED 1.D writing course is taken concurrently.	
CBEC 460	Professional Experience (3)
FIN 331	Principles of Financial Management (3)
ECON 305	Survey of International Economics (3)
MNGT 355	International Business (3)
MKTG 341	Principles of Marketing (3)
MNGT 361	Management and Organization Theory (3)
MNGT 365	Principles of Operations Management (3)
MNGT 437	Information Technology (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Areas of Study (15 credits)

- Economics
- Finance
- International Business
- Management
- Marketing
- CBE Individualized

(See requirements under each heading in this CBE section.)

Note: A student must complete 1 Area of Study and may take more if s/he wishes.

B.A. DEGREE OPTION

A student must complete all the courses above and a modern foreign language's intermediate courses (or equivalent).

MINOR in BUSINESS ADMINISTRATION (21 credits)

This minor is available to students who have a major other than Business Administration or Accounting.

ACCT 201	Accounting Principles I (3) (or Honors ACCT 211)
ACCT 202	Accounting Principles II (3) (or Honors ACCT 212)
ECON 201	Microeconomic Principles (3) (or Honors ECON 203)
ECON 202	Macroeconomic Principles (3) (or Honors ECON 204)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 361	Management and Organization Theory (3)

Note: A student electing a Business Administration Minor is not formally admitted to nor a graduate of the College of Business & Economics. A student must complete at least 12 credits at Towson State University in order to earn this minor.

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CBE

PROGRAMS AVAILABLE

Major in Business Administration with a CBE Individualized Course of Study

(See *Business Administration Major*)

(See *Business Freshman and Sophomore Suggested Sequence*)

(See *Business Administration Junior and Senior Suggested Sequence*)

COURSE REQUIREMENTS

CBE Individualized (15 credits)

Students with a special interest or need can petition their advisors for unique CBE upper-level five-course combinations. Students write a justification or theme underlying their selections. This personalized course of study must be approved by the advisor/mentor and the Department Chair.

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Department of Economics

Professors: DORN, FENSTERMAKER, GEORGIOU (*Chair*), KONG, PAUL, SHIN, WOROBY

Associate Professors: EGGER, LAURENCE, LEE, SULLIVAN, WEINTRAUB

Assistant Professor: LI

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wwwsite: <http://www.towson.edu/~cbe>

WHY STUDY ECONOMICS?

* To prepare for jobs in:

Government such as research assistant, program analyst, and budget analyst. Government economists analyze economic conditions and estimate the economic impact of public policy.

Business and Consulting such as financial analyst, long-range planner, and stockbroker. Business economists provide information on: market conditions, forecasting, government regulations, facilities planning, product planning and pricing.

* To prepare for graduate school in such programs as Law, Economics, Public Policy, and Business Journalism.

* To earn an attractive double major in Geography, Mathematics, or Political Science.

* To blend business and economics by taking either an Economics Major with a Business Administration Minor or a Business Administration Major with an Economics Specialization.

* To have the ability to analyze the American economic system and international and domestic economic forces that determine production, prices, profits, and income distribution.

MISSION STATEMENT

The Economics Department is committed to an excellent economics education built on a comprehensive liberal arts foundation to enable graduates to excel as leaders in a dynamic business environment and/or a career in public service by means of:

- * individualized student advising
- * professional work experience
- * teaching excellence
- * commitment to the highest academic and ethical standards

DISTINCTIVE FEATURES

* REGIONAL ECONOMIC STUDIES INSTITUTE (R.E.S.I.)

- * nationally recognized institute for applied economic research
- * Director: Michael A. Conti, Ph.D.

* COUNCIL ON ECONOMIC EDUCATION IN MARYLAND (CEEM)

- * responsibility of increasing the quality and quantity of economics taught in Maryland schools, colleges, and the general community
- * Institutional Advancement Division affiliate
- * Council Chair: Hoke Smith, Towson University President
- * Council President: Michael Molloy, Vice President, Alex Brown & Sons, Inc.
- * Council Executive Director: Carol Jarvis, Ph.D.

* CENTER FOR ECONOMIC EDUCATION

- * 1 of 9 Maryland college/university-based centers
- * 4 functions:
 - consulting with educational and community organizations
 - developing economic education materials
 - improving economics instructional programs

- conducting research in economic education
- * Towson Center Director: George C. Georgiou, Ph.D.
- * Baltimore Economic Interests (Minimester Course)
- * Student Recognition Awards
 - * Federal Reserve Bank Excellence Award
 - * Wall Street Journal Award
 - * J.J. German Scholarship
- ** Economics Club

PROGRAMS AVAILABLE

Major in Economics
 Major in Business Administration: Economics
 Double Major in Economics and Geography
 Double Major in Economics and Mathematics
 Double Major in Economics and Political Science
 Minor in Economics

MAJOR in ECONOMICS

(See Economics Freshman and Sophomore Suggested Sequence.)

(See Economics Junior and Senior Suggested Sequence.)

Graduation Requirements: 33 credits in Economics with a grade of "C" or better.

Note: Transfer students must take a minimum of 15 credits in Economics at Towson State University to qualify for an Economics major.

Required Courses (33 credits)

ECON 201 Microeconomic Principles (3)
 ECON 202 Macroeconomic Principles (3)
 ECON 205 Statistics for Business and Economics (3)
 ECON 309 Intermediate Price Theory (3)
 ECON 310 Macroeconomic Theory (3)
 ECON 313 Money and Banking (3)
 one 400 level economics course (excluding ECON 495 and ECON 497)
 four upper-level economics electives

Only one Internship in Economics (ECON 497) will count towards the major.

RECOMMENDED COURSES for students considering graduate school in Economics: ECON 401, ECON 451, MATH 273, MATH 274, MATH 275 and MATH 463.

Also, the Department allows any one of the following courses outside the Department to count towards the major in satisfying 4 electives:

MNGT 451 Industrial Relations (3)
 MATH 377 Mathematical Models (3)
 GEOG 359 Economic Geography (3)
 FIN 332 Advanced Financial Management (3)

MAJOR in BUSINESS ADMINISTRATION: ECONOMICS

(See Business Freshman and Sophomore Suggested Sequence.)

(See Business Administration Junior and Senior Suggested Sequence.)

Economics Track (15 credits)

ECON 309 Intermediate Price Theory (3)
 ECON 310 Macroeconomic Theory (3)
 ECON 313 Money and Banking (3)
 2 ECON upper-level electives
 Recommended as 1 elective: ECON 409
 Note: ECON 497 cannot count as an elective.

DOUBLE MAJORS

Requirements for Double Majors

The Economics Department offers three double major programs: (1) Economics and Mathematics, (2) Economics and Geography/Environmental Planning, and (3) Economics and Political Science. Thus, a student majoring in Economics may declare a second major

and obtain a degree which certifies that both majors have been completed. A total of 33 credits in Economics must be earned to complete the major. Of these, a total of 15 credits of the following courses are required for all double major programs:

ECON 201 Microeconomic Principles (3)
 ECON 202 Macroeconomic Principles (3)
 ECON 309 Intermediate Price Theory (3)
 ECON 310 Macroeconomic Theory (3)
 ECON 313 Money and Banking (3)

In addition to the required Economics courses listed above, one course in statistics from the following list is required:

ECON 205 Statistics for Business and Economics (3)
 MATH 332 Mathematical Statistics (3)
 GEOG 375 Quantitative Methods in Geography (3)

For each specific double major, listed below are other required courses for the Economics part.

Economics and Mathematics

The double major with Mathematics requires the following five additional courses:

MATH 377 Mathematical Models (3)
 COSC 236 Fundamentals of Computing (3)
 ECON 451 Introduction to Mathematical Economics (3)
 plus two electives in Economics (6)

The student should consult with the Mathematics Department to ensure fulfilling the Mathematics Department requirements.

Economics and Geography

The double major with Geography requires five additional courses, one of which must be a 400-level Economics course (excluding ECON 495 and ECON 497). Two of the following upper-level Economics courses can be used to satisfy the requirements of both majors:

ECON 323 Comparative Economic Systems (3)
 ECON 325 Economic Development (3)
 ECON 333 Poverty and Discrimination (3)
 ECON 351 Urban Economics (3)
 ECON 421 International Economics (3)
 ECON 470-479 Topics in Economics (to be approved by the Geography Department) (3)
 ECON 40M Practicum in Regional Economics (Minimester course) (3)

In addition, the Economics Department accepts two of the following courses in Geography toward fulfilling the Economics major:

GEOG 355 Historical Geography of Urbanization (3)
 GEOG 359 Economic Geography (3)
 GEOG 381 Political Geography (3)
 GEOG 385 Population Geography (3)
 GEOG 391 Urban Systems I (3)
 GEOG 393 Transportation and Infrastructure Planning (3)
 GEOG 405 Comprehensive Planning
 GEOG 470-479 Seminar: Selected Topics in Geography (to be approved by the Economics Department) (3)

GEOG 481 Environmental Impact Analysis (3)
 GEOG 484 Land Use Planning (3)

The student should consult the Geography Department to ensure fulfilling the Geography Department requirements.

Economics and Political Science

The double major with Political Science requires five additional courses, one of which must be a 400-level Economics course (excluding ECON 495 and ECON 497). Two of the following upper-level Economics courses can be used to satisfy the requirements of both majors:

ECON 323 Comparative Economic Systems (3)
 ECON 331 Government and Economic Life (3)
 ECON 337 Public Finance (3)
 ECON 351 Urban Economics (3)

In addition, the Economics Department accepts two of the following courses in Political Science toward fulfilling the Economics major:

POSC 305 Urban Government and Politics (3)
 POSC 375 Public Administration (3)
 POSC 470 Special Topics Course "Comparative Public Policy" (3)
 POSC 473 Special Topics Course "Energy" (3)
 POSC 482 Public Policy Analysis (seminar or lecture course) (3)

The student should consult the Political Science Department to ensure fulfilling the Political Science Department requirements.

MINOR in ECONOMICS (18 credits)

The Economics minor may be taken with any other major.

Graduation Requirements: All Economics courses must be completed with a grade of "C" or better.

Required Courses:

ECON 201 Microeconomic Principles (3)

ECON 202 Macroeconomic Principles (3)

4 ECON upper-level electives

Note: ECON 305 cannot count as an elective.

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ECONOMICS MAJOR FRESHMAN and SOPHOMORE SUGGESTED SEQUENCE

<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 3</u>	<u>Semester 4</u>
GEN ED II.C.2 ECON 201 (203 Honors)	ECON 202 (204 Honors)	GEN ED I.C ECON 205	ECON 310
GEN ED (4 Courses)	GEN ED (4 Courses)	ECON 309	ECON 313
		GEN ED (3 Courses)	Electives (3 Courses)

Choices: See your advisor to make the most appropriate selections.

JUNIOR and SENIOR SUGGESTED SEQUENCE

<u>Semester 5</u>	<u>Semester 6</u>	<u>Semester 7</u>	<u>Semester 8</u>
ECON 323/325/333 GEN ED I.D.	ECON Elective	ECON Elective 400-level	ECON Elective
ECON Elective	Electives (4 courses)	Sci, Tech, Society GEN ED II.A.2.	Electives (4 courses)
Electives (3 Courses)		Electives (3 courses)	

OPEN CHOICES: See your advisor to make the most appropriate selections.

NOTE: Based on your needs, your preferences, and course availability, your selected sequence will probably vary from the sequence demonstrated here.

Department of Finance

Professors: GRIMSHAW, HAIGHT (*Chair*), SINGER

Associate Professors: AVERY, KAYVAN

Assistant Professors: RHEE

OFFICE: Darlene Danaher, 108 Stephens Hall

Phone: (410) 830-2465 **Fax:** (410) 830-3454

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WHY STUDY FINANCE?

- * To prepare for positions in Managerial Finance, Banking, Insurance, and Securities industries.
- * To become proficient in applying financial tools to investment and financing decisions
- * To develop analytical skills that can be used throughout your business career
- * To build a solid foundation for making personal financial decisions

MISSION STATEMENT

The mission of the Department of Finance is to produce finance graduates who possess the knowledge, skills, and abilities necessary to function effectively in the financial community. The Department's aim is to develop students who are competent, ethical, and capable of meeting the challenges of an increasingly complex global environment.

GOALS

The Goals of the Finance Department are: (1) to achieve excellence in teaching while offering students a curriculum based on leading-edge financial skills and techniques, (2) to increase the body of knowledge in the finance professions through applied scholarship activities, and (3) to provide consulting and advisory services to the business and professional community.

DISTINCTIVE FEATURES

- * Finance Department Advisory Board
- * FMA (Student Chapter of Financial Management Association)
- * Internships in Finance
- * Student Recognition Awards
 - Baltimore Security Analysts Society
 - Baltimore Security Traders Association
 - C&P Telephone Company

PROGRAMS AVAILABLE

Major in Business Administration: Concentration in Finance with:

Finance Overview

Finance Financial Planning

Investments

(See Business Administration Major.)

(See Business Freshman and Sophomore Suggested Sequence.)

(See Business Administration Junior and Senior Suggested Sequence.)

SPECIALIZATION REQUIREMENTS

Finance Overview (15 credits)

- | | |
|---------|---|
| FIN 332 | Advanced Financial Management (3) |
| FIN 333 | Investments and Security Analysis I (3) |

- | | |
|---------|--|
| FIN 430 | Capital Markets and Management of Financial Institutions (3) |
| FIN 439 | Financial Policy (3) |

1 FIN elective selected from:

- | | |
|---------|--------------------------|
| FIN 433 | Portfolio Management (3) |
| FIN 470 | Topics in Finance (3) |
| FIN 491 | Seminar in Finance (3) |

Finance Individualized (15 credits)

Students with a special interest or need can petition their advisors for unique CBE upper-level five-course combinations. Students write a justification or theme underlying their selections. This personalized Area of Study must be approved by the advisor/mentor and the Department Chair. Options are:

Financial Planning (15 credits)

- | | |
|---------|---|
| FIN 341 | Fundamentals of Financial Planning (3) |
| FIN 333 | Investments and Securities Analysis (3) |
| FIN 343 | Insurance and Risk Management (3) |
| FIN 441 | Retirement Planning and Employee Benefits (3) |
| FIN 443 | Estate Planning (3) |

Investments (15 credits)

- | | |
|---------|---|
| FIN 337 | Financial Analysis (3) |
| FIN 332 | Advanced Financial Management (3) |
| FIN 333 | Investments and Securities Analysis I (3) |
| FIN 423 | Investment and Securities Analysis II (3) |
| FIN 433 | Portfolio Management (3) |

Additional Finance courses Offered by the Finance Department:

- | | |
|---------|-------------------------------------|
| FIN 345 | Tax Planning (3) |
| FIN 445 | Ethical Issues in Finance (3) |
| FIN 498 | Practicum in Financial Services (3) |
| FIN 435 | International Finance (3) |
| FIN 496 | Practicum in Corporate Finance (3) |

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International Business

COORDINATOR: Tamara Woroby, Ph.D.
OFFICE: C.F. Eifert, 103 Stephens Hall
Phone: (410) 830-2959 **Fax:** (410) 830-3424
E-Mail: D7PCEK2@TOWSON.EDU
wwwsite: <http://www.towson.edu/~cbe>

The International Business Area of Study (Track) is an interdisciplinary program comprised of courses drawn from disciplines within the College of Business and Economics.

WHY STUDY INTERNATIONAL BUSINESS?

- * To provide the international perspective necessary to obtain many jobs in the contemporary business world
- * To provide students with the knowledge and skills to operate effectively in all sizes of companies
- * To understand the various perspectives that are part of a diverse workplace

PROGRAMS AVAILABLE

Major in Business Administration: International Business
(See Business Administration Major.)
(See Business Freshman and Sophomore Suggested Sequence.)
(See Business Administration Junior and Senior Suggested Sequence.)

COURSE REQUIREMENTS

International Business (15 credits)

FIN 435	International Finance (3)
MKTG 445	International Marketing (3)
MNGT 438	Multinational Management and Strategies (3)
<i>2 courses selected from:</i>	
ECON 323	Comparative Economic Systems (3)
ECON 325	Economic Development (3)
ECON 421	International Economics (3)
ECON 423	International Monetary System (3)
FIN 430	Capital Markets and Management of Financial Institutions (3)
MKTG 441	Marketing Research and Forecasting (3)

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Department of Management

Professors: DE CENZO (Chair), NAG, SOLOMON (Vice Chair), THAVIKULWAT

Associate Professors: DARROW, JAIN, ROSS, W. SMITH, SOMERS

Assistant Professors: KOPKA, PILLUTLA, TABAK

Senior Lecturers: BASURAY, FLECK, McCULLOH

OFFICE: Carol Lindsay, 116 Stephens Hall
Phone: (410) 830-2934 **Fax:** (410) 830-3236
E-Mail: LINDSAY-M@TOWSON.EDU
website: <http://www.towson.edu/~cbe>

WHY STUDY MANAGEMENT?

- * To prepare for careers such as line manager, human resources manager, small business manager, and entrepreneur
- * To understand a basic function common to all organizations, from teams to multinational corporations

MISSION STATEMENT

The primary mission of the Management Department is to foster student acquisition of discipline-specific knowledge, skills, and values needed for successful organizational management, and to enhance student understanding of the complexity of businesses within the global environment.

DISTINCTIVE FEATURES

- * Student Chapter of the American Production and Inventory Control Society
- * Student Chapter of the Society of Human Resource Management
- * Student Chapter of Students in Free Enterprise
 - Pie-In-The-Faculty's-Face Annual Fundraiser
- * Student Recognition Awards
 - Keimig Award
 - Chairperson's Award

PROGRAMS AVAILABLE

Major in Business Administration: Concentration in Management with:

Management Overview
 Management Personalized
 Decision and Information Systems
 Human Resources Management
 International Management
 Business Operations

(See Business Administration Major.)

(See Business Freshman and Sophomore Suggested Sequence)

(See Business Administration Junior and Senior Suggested Sequence)

COURSE REQUIREMENTS

Management Overview (15 credits)

MNGT 381	Human Resource Management (3)
MNGT 441	Management Experience Simulation (3)
MNGT 463	Organizational Leadership (3)
2 MNGT electives selected from:	
MNGT 311	Business on the Internet: Knowledge Navigating (3)
MNGT 411	Business and the Internet: Strategy, Structure, and Functions in the Electronic Marketplace (3)
MNGT 419	Supply-Chain Management (3)
MNGT 421	Management of Organizational Behavior (3)
MNGT 423	Service Operations Management (3)
MNGT 425	Organizational Theory and Design (3)
MNGT 433	Compensation and Benefits (3)
MNGT 438	Multinational Management and Strategies (3)
MNGT 451	Industrial Relations (3)
MNGT 453	Conflict Resolution in Business (3)
MNGT 455	Small Business Development (3)

MNGT 459	Purchasing Management (3)
MNGT 461	Total Quality Management (3)
MNGT 465	Organization Development (3)
MNGT 467	Decision Sciences II (3)
MNGT 470-479	Special Topics in Management (3)
MNGT 491	Directed Readings (1-3)
MNGT 495	Independent Research (Management) (1-3)
MNGT 497	Management Internship (3)
MNGT 498	Practicum in Management (3)

Management Individualized (15 credits)

Students with a special interest or need can petition their advisors for unique CBE upper-level five-course combinations. Students write a justification or theme underlying their selections. This personalized Area of Study must be approved by the advisor/mentor and the Department Chair. Suggestions are:

Decision and Information Systems

MNGT 461	Total Quality Management (3)
COSC 411	Systems and Design (3)
MNGT 441 or MNGT 443	Management Experience Simulation or Project Management (3)

2 MNGT courses selected from:

MNGT 311	Business on the Internet: Knowledge Navigating (3)
MNGT 411	Business and the Internet: Strategy, Structure and Functions in the Electronic Marketplace (3)
MNGT 419	Supply-Chain Management (3)
MNGT 467	Decision Sciences II (3)
MNGT 423	Service Operations Management (3)
MNGT 459	Purchasing Management (3)

Human Resource Management

MNGT 381	Human Resource Management (3)
MNGT 441 or MNGT 443	Management Experience Simulation or Project Management (3)

3 courses selected from:

MNGT 421	Management of Organizational Behavior (3)
MNGT 433	Compensation and Benefits (3)
MNGT 451	Industrial Relations (3)
MNGT 453	Conflict Resolution in Business (3)
MNGT 463	Organizational Leadership (3)
MNGT 465	Organization Development (3)
PSYC 327	Industrial Psychology (3)

International Management

FIN 435	International Finance (3)
MNGT 438	Multinational Management and Strategies (3)
MNGT 441 or MNGT 443	Management Experience Simulation or Project Management (3)

2 courses selected from:

ECON 323	Comparative Economic Systems (3)
ECON 325	Economic Development (3)
GEOG 443	Geography of East Asia (3)
MKTG 441	Marketing Research and Forecasting (3)
Modern Language Course	

Business Operations

MNGT 463	Organizational Leadership (3)
MNGT 467	Decision Sciences II (3)
MNGT 443	Project Management (3)
2 courses selected from:	
MNGT 381	Human Resource Management (3)
MNGT 421	Management of Organizational Behavior (3)
MNGT 423	Service Operations Management (3)
MNGT 425	Organizational Theory and Design (3)
MNGT 419	Supply-Chain Management (3)
MNGT 451	Industrial Relations (3)
MNGT 459	Purchasing Management (3)
PSYC 315	Motivation (3)
PSYC 327	Industrial Psychology (3)

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Department of Marketing

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E-Mail: DUPERT-T@TOWSON.EDU
wwwsite: http://www.towson.edu/~cbe

Professors: GRAZER, KEESLING, KING, MARONICK, L. SMITH
Associate Professors: KAYNAMA (Choir), MILLER
Assistant Professor: ROSECKY

WHY STUDY MARKETING?

- * To prepare for jobs that comprise 25%-33% of **all** civilian jobs. Entry-level college-graduate jobs include: assistant product manager, sales representative, assistant store manager, research trainee, retail management trainee, customer service representative, assistant media buyer, assistant merchandiser, promotion and public relations assistant, and marketing trainee.
- * To understand the essential element that links all businesses with their customers. All people have needs. All companies want to satisfy those needs. Marketers are the business people focused on the customers.
- * To help generate company profits while holding a fast-paced, visible, dynamic, desirable, and well-paid position. All business planning starts and ends with marketing.

MISSION STATEMENT

The Marketing Department is committed to an excellent broad-based education in Marketing that enables students to excel in positions of responsibility and leadership in a dynamic business environment, by means of:

- * Dedication to students and personalized service
- * Teaching excellence
- * Involvement with businesses, nonprofit organizations, and government
- * Commitment to the highest ethical standards

DISTINCTIVE FEATURES

- * Student Chapter of American Marketing Association
- * The J. Dunbar Junior Memorial Scholarship
- * Outstanding Marketing Graduate Award
- * Marketing Internships with prestigious organizations

PROGRAMS AVAILABLE

Major in Business Administration: Concentration in Marketing with:
 Marketing Overview
 Marketing Personalized
 Entrepreneurial Marketing
 Promotion
 International Marketing
 Marketing Research

(See Business Administration Major.)

(See Business Freshman and Sophomore Suggested Sequence)

(See Business Administration Junior and Senior Suggested Sequence)

COURSE REQUIREMENTS

Marketing Overview (15 credits)

MKTG 425 Buyer Behavior Analysis (3)
 MKTG 441 Marketing Research and Forecasting (3)
 MKTG 485 Strategic Marketing (3)

2 MKTG electives selected from:

MKTG 343 Physical Distribution Management (3)
 MKTG 345 Advertising Management (3)
 MKTG 347 Services Marketing (3)
 MKTG 349 Product Development and Planning (3)
 MKTG 351 Sales Management (3)

MKTG 355 Retail Management (3)
 MKTG 357 Marketing Channels (3)
 MKTG 359 Marketing Ethics (3)
 MKTG 361 Marketing for Non-Profit Organizations (3)
 MKTG 371 Principles of Transportation (3)
 MKTG 411 Marketing Information Systems (3)
 MKTG 442 Marketing Seminar (3)
 MKTG 443 Business to Business Marketing (3)
 MKTG 445 International Marketing (3)
 MKTG 470-479 Special Topics in Marketing (3)

Marketing Individualized (15 credits)

Students with a special interest or need can petition their advisors for unique CBE upper-level five-course combinations. Students write a justification or theme underlying their selections. This personalized Area of Study must be approved by the advisor/mentor and the Department Chair. Suggestions are:

Entrepreneurial Marketing

MKTG 345 Advertising Management (3)
 MKTG 347 Services Marketing (3)
 MKTG 351 Sales Management (3)
 MKTG 355 Retail Management (3)
 MKTG 425 Buyer Behavior Analysis (3)

Promotion

MKTG 345 Advertising Management (3)
 MKTG 351 Sales Management (3)
 MKTG 425 Buyer Behavior Analysis (3)
 MKTG 445 International Marketing (3)

One of the following:

MKTG 470-479 Special Topics in Marketing (3)
 MKTG 495 Independent Research (Marketing) (3)
 MKTG 497 Marketing Internship (3)

International Marketing

MKTG 357 Marketing Channels (3)
 MKTG 425 Buyer Behavior Analysis (3)
 MKTG 441 Marketing Research and Forecasting (3)
 MKTG 445 International Marketing (3)

One of the following:

FIN 435 International Finance (3)
 GEOG 357 Cultural Geography (3)
 MNGT 438 Multinational Management and Strategies (3)

Marketing Research

ECON 401 Introduction to Econometrics (3)
 MKTG 425 Buyer Behavior Analysis (3)
 MKTG 441 Marketing Research and Forecasting (3)
 MKTG 495 Independent Research: Marketing (6)
 (usually taken in 2 consecutive semesters)

----- Invest in Yourself at CBE -----

**BUSINESS ADMINISTRATION MAJOR
FRESHMAN AND SOPHOMORE SUGGESTED SEQUENCE**

<u>Semester 1</u>	<u>Semester 2</u>	<u>Semester 3</u>	<u>Semester 4</u>
GenEd II.B.2.	GenEd I.A. or GenEd I.B (COSC 111)	GenEd II.A.1.	GenEd II.A.1.
GenEd I.B. COSC 111 or GenEd I.A	GenEd II.D.	GenEd II.B.1.	GenEd I.E.
GenEd I.C. MATH 111 (if needed) MATH 231	ECON 205 or MATH 231 (Unless taken) or LEGL 225	LEGL 225 (Unless taken) or (open choice)	(open choice)
GenEd II.C.2. ECON 201 (203 Honors)	ECON 202 (204 Honors)	GenEd II.B.3.	(open choice)
ACCT 201 (211 Honors)	ACCT 202 (212 Honors)	GenEd II.C.1.	(open choice)
Prerequisites (with a grade of "C" or better):			
ACCT 201	ECON 201		
ACCT 202	ECON 202		
LEGL 225	ECON 205 or MATH 231		
COSC 111			

Open Choices: See your advisor to make the most appropriate selections.

After you have taken the above sequence, you still need to complete the following GenEd categories:

I.D. - already required as part of the Business Administration upper-division program.

II.A.2. - (open choice), often taken in Junior or Senior year.

II.C.3. - (open choice), often taken in Junior or Senior year.

NOTE: Based on your needs, your preferences and course availability, your selected sequence will probably vary from the sequence demonstrated here.

**BUSINESS ADMINISTRATION MAJOR
JUNIOR AND SENIOR SUGGESTED SEQUENCE**

<u>Semester 5</u>	<u>Semester 6</u>	<u>Semester 7</u>	<u>Semester 8</u>
Cornerstone CBEC 301	Info Technology MNGT 437	Profess'l Experience CBEC 460	Bus Strat/Policy MNGT 481
Advanced Comp GEN ED I.D	Decision Sciences I MNGT 363	Operations Mgmt MNGT 365	Course in Area of Study
Finance FIN 331	Survey Int'l. Econ ECON 305	Course in Area of Study	Bus Ethics & Society MNGT 482
Marketing MKTG 341	Course in Area of Study	Course in Area of Study	Sci. Tech. Society GEN ED II.A.2
Management MNGT 361	Course in Area of Study	Internat'l Business MNGT 355	Cultural Diversity GenEd II.C.3.

Note: GEN ED I.D and II.A.2 are included in this sequence.

GEN ED II.C.3 is also included, but see your advisor or catalog for your requirement.

Courses of Study

CBE individualized
Economics
Finance

International Business
Management
Marketing

Note: A student must complete
1 specialization, but may complete
more than 1 if s/he chooses.







The College of Education

Towson University has a distinguished history in the preparation of classroom teachers and education specialists. As the first teacher-training institution in Maryland, Towson University has been preparing men and women for teaching careers for 130 years. Programs of study within the College of Education lead to the baccalaureate degree in education with certification in early childhood education and elementary education. In addition, the College offers programs that lead to certification in secondary education and K-12 education for those students enrolled in other colleges of the university. Programs of study within the College are constantly assessed and reorganized in order to provide students with three essentials for professional success: 1) a challenging general education in a variety of disciplines; 2) in-depth content knowledge in the field of teaching specialization; and 3) professional education based upon current research and models of best practice.

The teaching faculty in the College is dedicated to providing a background in research on learning and methods of instruction which prepares teachers and education specialists as facilitators of active learning. To promote this goal, the faculty is committed to active participation in the academic community as teachers, scholars, and advisors. They use methods of instruction which emphasize active student learning through the integration of content knowledge with the study and practice of effective pedagogy.

*Dennis Hinkle, Dean
Thomas Proffitt, Assistant Dean*

COLLEGE OFFICE

Hawkins Hall
Room 301
(410) 830-2570

CERTIFICATION AND ACCREDITATION

The College of Education offers programs of study leading to the baccalaureate degree in education with certification to teach early childhood, elementary, secondary and k-12 education.

The teacher education programs are approved by the Maryland State Department of Education, which uses the program approval standards set by the National Association of State Directors of Teacher Education and Certification (NASDTEC) and qualifies graduates for certification in all member states. Applicants for Maryland teaching certificates are required to achieve qualifying scores on the National Teachers Examination, as designated by the Maryland State Department of Education.

MISSION AND GOALS

The mission of the undergraduate teacher education programs is to provide methods of instruction and scholarship which promote active student learning. To this end, the faculty are committed to the following goals:

1. Demonstrate a commitment to scholarly growth in teaching, research, and service.
2. Require that prospective teachers receive a liberal education.
3. Promote good interpersonal relationships among persons in the teacher education community.
4. Promote positive attitudes and professional commitment.
5. Promote active involvement of persons in campus, community, and professional affiliations.
6. Develop in students the ability to interpret, analyze, evaluate, and communicate the content of their teaching specialty.
7. Promote teaching methods based on current research and successful practices.
8. Develop in students the values and skills that insure utilization of current and emerging technologies.
9. Develop understandings in students which enable them to teach students of diverse ethnic and cultural backgrounds.
10. Promote an understanding of human development that permits interpretation of learning behavior from childhood through adulthood.
11. Support a field experience program that provides early and continuous opportunities for teacher education students to relate academic content to cognitive strategies.
12. Maintain an evaluation and reward system that encourages superior performance by faculty and students.
13. Provide equal opportunity for students to pursue their interests and talents without regard for race, cultural background, sex or handicaps.
14. Develop skills in students to work effectively with exceptional learners, from gifted to those with disabilities.
15. Work cooperatively with school systems and other agencies to develop teacher preparation programs that meet current educational needs.
16. Actively recruit members of under-represented minority groups for careers in education.

ADMISSION TO TEACHER EDUCATION

The College of Education admits students either as freshmen or as undergraduate transfer students from accredited post-secondary institutions. During the freshman and sophomore years students are generally engaged in preprofessional courses or courses to complete General Education requirements.

In addition to the undergraduate program, the College of Education offers professional education courses for baccalaureate graduates seeking Maryland State certification. Prior to enrolling in course work, post baccalaureate students seeking certification only must contract the Maryland State Department of Education for an evaluation of their transcript. Certification students must receive a passing score (as determined by the Maryland State Department of Education) on the General Knowledge and Communications skills sections of the National Teacher Examination (NTE) and attain the required grade point average prior to admission.

Advising and Screening

Students who plan to enter the Early Childhood, Elementary or Secondary Education departments must visit the Center for Applied Skills in Education, Hawkins Hall 302, early in their first semester in order to:

1. Declare their major.
2. Complete the Teacher Education Information form.
3. Be assigned an advisor according to their chosen major.
4. Obtain information about the required speech and hearing screening.
5. Obtain information about the required National Teacher Examinations.

Admission to Professional Education Program

After completing a minimum of 45 credits, students in Early Childhood, Elementary or Secondary Education are required to apply for formal admission to the professional education programs. Application forms are available in the Center for Applied Skills in Education (HH 302). Majors in K-12 programs, such as Art, Music, Health, Science, Physical Education, and Dance may obtain applications and advisors through their major departments. Full admittance to the professional program is conditional on meeting the following requirements:

1. Completion of a written application for formal admission to the program.
2. Minimum overall quality point average of 2.50 (includes transfer credit and TU credit); Early Childhood Education and Elementary Education majors must have a minimum 2.75 QPA.
3. Minimum average of 2.50 in academic major (applicable only in programs requiring an academic major). Early Childhood Education majors must have a minimum 2.75 QPA; Elementary Education majors must have a minimum 3.00 QPA.
4. Completion of speech and hearing screening.
5. Completion of English 102 or equivalent course with a grade of "C" or better in Early Childhood Education and Elementary Education; Secondary Education also requires an admission essay.
6. Early Childhood Education and Elementary Education require a passing score on the General Knowledge and Communications Skills section of the National Teacher Examination (NTE).

Admission to Student Teaching

Students apply for student teaching on a form provided by the Center for Applied Skills in Education. Applications must be filed by the mid-semester date of the semester prior to student teaching.

All teacher education students must successfully complete the General Knowledge and Communications section of the NTE and a speech and hearing screening prior to student teaching.

The Teacher Education Executive Board (TEEB) reserves the right to refuse, deny, or revoke the application for admission to professional education programs or entry into student teaching of any student whose observed conduct is deemed incongruent with established guidelines of student demeanor for those planning to enter the teaching profession.

Students must have completed the following minimum requirements prior to student teaching:

1. Minimum of 75 credits completed (90 for Elementary Education).
2. Completion of a written application for student teaching.
3. Minimum quality point average of 2.50 (includes transfer credit and TU credit). Early Childhood Education and Elementary Education majors must have a 2.75 QPA.
4. Minimum average of 2.75 in academic major (applicable only in programs requiring an academic major).
5. Minimum average of 2.75 in professional Education courses; Early Childhood Education and Elementary majors must have 3.00 average in professional education courses.

6. A passing score (as determined by the Maryland State Department of Education) on the General Knowledge and Communications sections of the National Teachers Examination (NTE).
7. Completion of speech and hearing screening.
8. Completion of the advanced writing course with a grade of "C" or better.

Since some teacher education programs have selected additional requirements for admission to student teaching, students should refer to that section of this *Catalog* related to their specific major.

Students should arrange to take the General Knowledge and Communication sections of the National Teachers Examination (NTE) at the completion of their sophomore year. NTE application forms are available in the CASE Office. In some cases, supplementary course work or remedial activities may be required prior to student teaching.

STUDENT TEACHING PLACEMENTS

Each teacher education student who has reached the appropriate level of competency is placed in a cooperating school system. Opportunities are available in rural or urban schools, public and some private schools, "self-contained" or "open-space" classrooms with individual teachers or with teams. With special arrangements through the CASE office, student teaching may be completed in the United Kingdom. Students may be placed in schools where methods courses are taught by a college supervisor, or individual placements are made for students who have taken methods courses on campus. In conjunction with area school systems, every attempt is made to secure the available placement that best meets the needs of the individual student.

Differentiated student teaching (an additional and/or special student teaching experience) may be taken by students with the permission of their advisor.

Students enrolled in student teaching are charged a fee ranging from \$150 to \$300 per student-teaching experience. This fee is used for remuneration to cooperating teachers in schools where student teaching is completed.

CENTER FOR APPLIED SKILLS IN EDUCATION (CASE)

OFFICE

Hawkins Hall, Room 302, (410) 830-2567

Director: MR. LEE BUSH

The Center for Applied Skills in Education (CASE) is a service office supported by the College of Education at Towson University. The major purpose of the center is to assist students and instructors in placing students in a variety of field settings such as student teaching and practical experiences. More specific operations include:

1. Coordinating/overseeing field experiences - pre-service and student teaching.
2. Counseling students regarding field work.
3. Maintaining liaison between schools/agencies and university departments.
4. Coordinating student advising (TRIAD, declaration of major, assignment of advisors, etc).
5. Providing information to Education majors on NTE and speech and hearing test administrations.
6. Tracking Education majors and maintaining Education student records.
7. Coordinating staff development programs for schools and university personnel.
8. Evaluating requests for credit for prior teaching experience.
9. Coordinating the "student teaching abroad" program.



Department of Early Childhood Education

Professor: FRIEMAN, BERKELEY (Chair)

Associate Professor: HILDEBRAND (Graduate Coordinator)

Assistant Professors: ERICSON, HELLER, KIRMANI, O'HARA, WATERS
WATSON-THOMPSON, WHEELER

Instructor: PORTS

OFFICE

Hawkins Hall, Room 014, (410) 830-2572

PROGRAMS OF THE DEPARTMENT

The Department of Early Childhood Education offers the following programs of study: *the major in Early Childhood Education, the major in Elementary Education with eligibility for Early Childhood Education, and the Master of Education in Early Childhood Education*. For more information about the graduate program consult the *Graduate School Catalog*.

The Early Childhood Education major is designed to prepare students to work with young children from birth through grade 3. It is designed on the premise that special capabilities and understandings are necessary to teach successfully in the preschool and primary grades. The goal of the faculty is to prepare students to become effective, successful teachers of young children who facilitate active learning in developmentally appropriate environments. Through a program based in the liberal arts and sciences and a planned sequence of professional course work and field experiences, students are instructed and guided toward achieving this goal. Action-based learning is fundamental to the program. Field experience, as an integral component of professional courses, provides the students with the opportunity to apply the theoretical principles of teaching and learning within a supervised environment.

The major in Early Childhood Education leads to State certification to teach nursery school, kindergarten, and primary grades 1 - 3. It also prepares students for positions in other programs for young children such as day care centers, parent and child centers, child life programs, early intervention programs, private and other non-public preschool and primary settings.

Major in Elementary Education/Early Childhood Certification

In cooperation with Elementary Education, students can select courses that will enable them to become certified in Early Childhood Education and Elementary Education. Graduates of this program would be eligible to teach children from birth through age thirteen. Students interested should contact the chairs of both departments to plan their programs.

Alternate Early Childhood Education Major

As a service to teachers who wish to pursue a degree in Early Childhood Education while they are on their teaching assignments and to other workers in programs for young children, the University offers an alternate program during evenings and summers for the preparation of nursery school, kindergarten, day care center, and primary teachers which will enable them to major in Early Childhood Education. There is a requirement to student teach and to participate in the student teaching seminar during daytime hours.

Special Education

Courses leading to state certification in Special Education are available through the Department of Reading, Special Education, and Instructional Technology. State certification is generic but age specific and requires 39 credits, many of which are required for Early Childhood, Elementary, or Secondary Education majors.

SCHOOL LIBRARY/MEDIA

Elementary and Early Childhood students may acquire an additional state certification endorsement for school media center positions (Educational Media Associate, Level 1) by adding 18 credits of certain ISTC electives to their major. Interested students should contact the Department of Reading, Special Education, and Instructional Technology.

MAJOR IN EARLY CHILDHOOD EDUCATION

To meet College and Maryland State certification requirements in general and professional courses, the student must complete 128 hours for graduation. Students must have a "C" or better in all courses in their major; this includes the interdisciplinary methods courses in Music, Art, Physical Education and Science, taken concurrently with ECED 341, and the Math and Advanced Writing courses taken concurrently with ECED 342. All students, beginning with their enrollment in ECED 101, The Young Child as a Learner, will participate in the Portfolio Assessment and Development Process through to graduation.

Early Childhood Education majors should confer with an Early Childhood advisor early in their first semester at TU and every semester thereafter to assure that their planned program of study meets university, department and Maryland State Department of Education requirements. This is particularly important if students are planning to pursue a minor or if they are planning a program of study in special education. Students should consult with their advisors before taking courses on a pass/fail option since courses in their major and courses required for Maryland State Department of Education certification should not be taken on this option.

ECED Screening Criteria

Early Childhood Education is a screened major. The following requirements must be met:

1. Completion of speech and hearing test.
2. Completion of 60 or more credits, including ENGL 102/190 and ECED 101, Young Child as a Learner, with a grade of "C" or higher.
3. Achievement of a cumulative QPA of 2.75 (This includes transferred grades and grades earned TU. A failed course that has been repeated satisfactorily at another institution will be eliminated *only from the computation for admission into the ECED program. A student's TU QPA is not altered by transfer work. Courses taken at TU and repeated at another college or university do not apply to TU's repeated course policy. See "Transferring Work to Towson" under the "Academic Regulations" section of the Undergraduate Catalog.*)
4. A score at or above the level established by the Maryland State Board of Education on the NTE Core Battery Exam, including the General Knowledge and Communications Skills sections.
5. Application, including transcripts from all post high school institutions, submitted to the CASE Office by the announced closing date. Each semester the number of students to be admitted to the Early Childhood Education program will be determined by the availability of spaces in ECED 341.

ECED Student Teaching Criteria

Admission into student teaching requires a cumulative QPA of 2.75, a QPA of 3.0 in the major.

Exceptions to the program established by the Early Childhood Education Department are permitted only with the consent of the department chair.

Requirements for the Major

Students must complete 80 credits from the following list of university and departmental courses. **Courses listed below with an asterisk should be completed prior to student teaching.** All students must pass the NTE Professional Knowledge Section at or above the level established by the Maryland State Board of Education prior to being accepted into ECED 351 and ECED 352, Student Teaching.

Required University and Professional Courses**University Courses (Including General Education Requirements)**

(NOTE: Designation in parentheses following a course, for example (I.A.), refers to a General Education subcategory that can be fulfilled by successfully completing the course designated.)

I. English

- ENGL 102 Writing for a Liberal Education (I.A.)
 ENGL 233 Survey of African-American Literature (II.C.3)
 or
 ENGL 235 Major Writers in African-American Literature
 ENGL ELECTIVE

II. Social Studies

- GEOG 102 World Regional Geography (I.D.)
 or
 GEOG 105 Geography of International Affairs (II.D.)
 HIST 145 History of the U.S. to the Mid-19th Century (II.B.1)
 or
 HIST 146 History of the U.S. since the Mid-19th Century (II.B.1)
 HIST ELECTIVE
 POSC 103 American National Government (II.B.2)
 SOCI 101 Introduction to Sociology (II.B.2)

III. Science

- BIOL 110 Contemporary General Biology (II.A.1)
 PHSC 101 Physical Science I (II.A.1)
 SCIE 371 Teaching Science in Early Childhood Education
 ELECTIVE (One course from BIOL, CHEM, COSC, PHSC,
 MATH or PHYS)

IV. Mathematics

- MATH 204 Concepts of Mathematics for Elementary Teachers I
 MATH 205 Concepts of Mathematics for Elementary Teachers II
 (I.C.)
 MATH 321 Teaching Mathematics in Early Childhood Education

V. Fine and Performing Arts

- (Select One Course from List to fulfill I.E.)
 ART 102 Design for Non-Art Majors
 ART 106 Drawing for Non-Art Majors
 ART 107 Ceramics for Non-Art Majors
 ART 109 Sculpture for Non-Art Majors
 ART 113 Painting for Non-Art Majors
 ART 126 Fabric Design for Non-Art Majors
 THEA 101 Acting I
 and
 ARED 373 Art for Early Childhood Education

VI. Music

- MUSC 101 Introduction to Music Literature (II.C.1)
 MUED 304 Methods of Teaching Music in Early Childhood Education

VII. Physical Education

- PHEC 281 Physical Education for Elementary Students I
 PHEC 324 Teaching Physical Education in Elementary School

VIII. Psychology

- PSYC 101 Introduction to Psychology (II.C.2)
 PSYC 201 Educational Psychology

IX. Additional Required Courses

- COMM 131 Fundamentals of Speech Communications
 ECED 422 Writing Techniques/Teachers in Early Childhood Education (I.D.)
 HLTH 101 Current Health Problems (II.B.3)
 *ISTC 201 Using Information Effectively in Education (I.B.)
 EDUC 401 Foundations of Education

Refer to the explanation of the General Education requirements in the section entitled "The University Curriculum."

Professional Courses

- *ECED 101 The Young Child as a Learner
 *ECED 341 Preprimary Curriculum

- *ECED 342 Primary Curriculum
 *ECED 351 Student Teaching in Early Childhood Education: Primary Guide
 *ECED 352 Student Teaching in Early Childhood Education: Preschool-Kindergarten
 *ECED 360 Emerging Literacy: Birth to 5 Years
 *ECED 361 Teaching Reading in Early Childhood Education
 *ECED 421 Problems in Early Childhood Education

- *APPROVED EARLY CHILDHOOD EDUCATION ELECTIVE
 *APPROVED EARLY CHILDHOOD EDUCATION ELECTIVE
 *APPROVED EARLY CHILDHOOD EDUCATION ELECTIVE
 APPROVED EARLY CHILDHOOD EDUCATION ELECTIVE
 APPROVED EARLY CHILDHOOD EDUCATION ELECTIVE
 *SPEC 301 Introduction to Special Education K-12
 *Should be completed prior to Student Teaching

**Total Program Credits Required for Graduation:
128 Semester Hours****Possible Professional Electives**

- ECED 301 Materials and Experiences for the Young Child
 ECED 407 Interactive Technology and Young Children
 ECED 411 Parents and Teachers: Partners in Early Childhood Education
 ECED 415 The Day Care Center
 ECED 417 Early Identification of Learning Disabilities
 ECED 47X Special Topics in Early Childhood Education (As Announced)
 ECED 494 Travel and Study: Early Childhood Education
 ECED 495 Independent Study in Early Childhood Education
 ECED 496 Directed Reading in Early Childhood Education
 EDUC 417 Children's Literature
 EDUC 460 Teaching in a Multicultural/Multiethnic Society

(NOTE: Other courses may be selected. The student should select electives with the advice of their Advisor.

STUDENT TEACHING SEMESTER

A maximum of 15 credits may be taken during the student teaching semester.

TRANSFER STUDENT POLICIES

A minimum of 25 credits in the major must be completed at TU. The Introduction to Special Education course is transferable from certain institutions only. Contact the department chair for specifics.

Department of Elementary Education

Professors: HAUSERMAN, HOLMES (Chair), NICHOLAS, SMITH
Associate Professors: ALTWERGER, BRYANT, DELLAVECCHIA (Graduate Coordinator), KING, McALLISTER
Assistant Professors: COLE, KAI KAI, KILARR, MARTIN, WHEELER
Instructional Facilitators: ALBAN, MORGAN
Adjunct Faculty: BRAWN, BUSHMAN, CHAPMAN, DRIVER, EVANGELISTI, GRANGOS, GOODEN, KATSAFANAS, METZGAR, OWINGS, RAMSAY, RAY, SEABORG, SETZER, UHLFELDER

OFFICE

Hawkins Hall, Room 107G, (410) 830-2176
 Undergraduate Information line: (410) 830-2565
 Graduate Information line: (410) 830-4251

PROGRAMS OF THE DEPARTMENT

The Department of Elementary Education offers the following programs of study: the *major in Elementary Education*, the *major in Elementary Education with eligibility for Early Childhood certification*, the *Elementary Education major with a minor in selected disciplines*, and the *Master of Education in Elementary Education*. For more information about the master's programs, consult the *Graduate School Catalog*.

The Elementary Education faculty believes that well-prepared elementary school teachers are facilitators of active learning. As reflective practitioners, teachers engage students in the learning process by utilizing research findings and experience-based strategies and practices to make sound educational decisions. These decisions should be based upon an articulated education philosophy, a thorough knowledge of students' strengths and needs, and an analysis of various learning environments. The elementary education program fulfills the goal of preparing such teachers through a program based on a broad liberal arts background and professional preparation including a planned sequence of courses and field experiences in the Baltimore Metropolitan area.

The major in Elementary Education leads to certification to teach grades 1 through 6, through grade 8 in the middle schools organization and grade 9 provided content requirements for secondary certification are met. The program provides classroom and laboratory experiences that prepare students for beginning teaching in elementary or middle schools.

Major in Elementary/Early Childhood Education Certification

In addition to the major in Elementary Education, students can select courses that will enable them to become certified in both Elementary and Early Childhood Education. Graduates of this program would be eligible to teach children from birth through age thirteen. Interested students should contact the chairs of both departments to plan their programs.

MARYLAND COLLABORATIVE FOR TEACHER PREPARATION (Science and Mathematics)

This program is for Elementary Education students with an interest in developing a specialty in science and mathematics for teaching in grades 4 through 8. Students may obtain an endorsement in this specialty by adding specified science, mathematics, and interdisciplinary electives to their major. Scholarships are available for qualified individuals. Interested students should contact Dr. Loretta Molitor at the Center for Mathematics and Science Education (Smith Hall, 356).

Elementary Education Major with a Minor

Elementary majors may arrange programs with minors in other selected disciplines by arrangement with the chair of Elementary Education and the chair of the other department concerned.

Elementary Education Major/Mathematics Minor

Through a cooperative program of the Elementary Education and Mathematics departments, students can use a middle school student teaching experience as a route to elementary certification with a mathematics minor. Interested students should consult with the chairs of the Elementary Education and Mathematics departments as early in their college program as possible.

Pre-Admission Requirement for All Candidates

Students interested in becoming Elementary Education majors must first gain admission to Towson University. *Admission to the university does not guarantee admission to the Elementary Education major.*

All students applying for admission to the undergraduate elementary education program must fulfill the following requirements:

A. Declaration of Intent

1. Completion of Declaration of Intended Major (PELE) form and assignment of advisor, CASE Office, Hawkins Hall 302, during the first two weeks of semester.
2. Completion of an application card for admission to the Elementary Education major (faculty advisor). The application card must be completed during the student's initial meeting with his/her advisor, and promptly returned to the department office (Hawkins Hall, 107G).

B. Prerequisites for Admission to Professional Education Sequence

The following prerequisites for admission must be met in the semester prior to scheduled entrance into the professional education sequence:

1. Junior status (60 credits) upon beginning the professional education sequence. Application for admission occurs during the semester prior to beginning the elementary education program (45 credits).
2. Overall grade point average of 2.75, including transfer GPA. Transfer grades are part of the eligibility screening to enter the program. Once in the program, students use only their GPA from Towson.
3. Completion of speech and hearing tests.
4. Completion of English 102 (or equivalent course) with a grade of "C" or better.
5. A passing score (as determined by the Maryland State Department of Education) on the General Knowledge and Communications Skills sections of the National Teachers' Examination (NTE). Students who fail one or both of the NTE tests need passing scores before they may be allowed to continue into the level internship.
6. Students who are accepted into the Elementary Education program will automatically have their major changed from PELE to ELED.

Screening

All candidates for the undergraduate program may be ranked according to cumulative grade point average in all college or university courses (transfer GPA and/or Towson GPA). The number of students admitted during any given semester is determined by the number of seats available in introductory courses which, in turn, is determined by available faculty resources.

No more than 25% of each class of new students admitted as elementary education majors will be out-of-state residents unless qualified in-state residents (those with a GPA of 2.75 or higher and who have fulfilled all entry requirements) are unavailable.

Transfer Students

The Elementary Education major is extremely competitive, and the number of seats available each semester is limited. Therefore, only transfer students who are eligible for admission to the major and who have submitted their transcripts by the priority deadlines established by the department (March 1 for fall registration and November 1 for spring registration) will be included in the rank-order pool of applicants. **NOTE: Transfer students are obligated to complete the above prerequisites immediately upon entering the program.**

Affirmative Action Policy

Towson University does not discriminate on the basis of race, national origin, religion, color, sex, age, sexual orientation, or condition of handicap in its academic program. Some groups, however, have been historically under-represented in the teaching profession.

The department shall consider appeals to waive the GPA or NTE requirement on an individual basis, if it is demonstrated that such

requirements have an inequitable impact on the minority student population. The department will also consider requests for extenuating circumstances on a case-by-case basis. It is the student's responsibility to contact the department chairperson in a timely fashion for information about these processes.

MAJOR IN ELEMENTARY EDUCATION

To meet both the College and Maryland State certification requirements, students must complete 80 hours in the arts and sciences, at least 34 hours in professional education courses of which a minimum of 21 must be taken at Towson, and electives to make a total of at least 126 credits. Students must maintain an overall quality point average of 2.75 or higher, and a 3.00 in courses for the major.

For admission to student teaching, students in elementary education must complete a minimum of 90 credits.

Students should consult with their advisors before taking courses on a pass/fail option. Courses in the major and courses required for Maryland State Department of Education certification must not be taken with this option.

Theory and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching.

Exceptions, changes, waivers and/or substitutions from the program pattern for Elementary majors, in content or sequence of professional education courses, are permitted only with the **written consent** of the chair of the Elementary Education Department.

Requirements for the Major

Students must complete 80 credits from the following university and departmental required courses.

The student must take prerequisite courses in art, music, and physical education and at least one methods course in one of these three special areas (ARED 371 or MUED 305 or PHEC 324).

All content, methods, and elective courses must be completed prior to student teaching.

Required University and Departmental Courses

Academic Content

I. English (12 semester hours)

ENGL 102 Writing for a Liberal Education (I.A.)
ENGL 233 Survey of African-American Literature (II.C.3)

or

ENGL 235 Major Writers in African-American Literature (II.C.3)
ENGL ELECTIVE
ENGL ELECTIVE

II. Social Studies (15 semester hours)

GEOG 102 World Regional Geography (II.D.)

or

GEOG 105 Geography of International Affairs (II.D.)
HIST 145 History of the U.S. to the Mid-19th Century (II.B.1.)

or

HIST 146 History of the U.S. since the Mid-19th Century (II.B.1)
HIST ELECTIVE
HIST ELECTIVE

POSC 103 American National Government (II.B.2)

or

SOCI 101 Introduction to Sociology (II.B.2)

III. Science (12 semester hours)

BIOL 110 Contemporary General Biology (II.A.1)
PHSC 101 Physical Science I (II.A.1)
BIOL 303 Life Sciences for the Elementary Teacher
PHSC 303 Earth-Space Science in Childhood Education

IV. Mathematics (8 semester hours)

MATH 204 Concepts of Mathematics for Elem. Tchrs. I
MATH 205 Concepts of Mathematics for Elem. Tchrs. II (I.C.)

V. Art (3 semester hours) (Choose one course: all fulfill I.E.)

ART 102 Design for Non-Art Majors
ART 106 Drawing for Non-Art Majors
ART 107 Ceramics for Non-Art Majors
ART 109 Sculpture for Non-Art Majors
ART 113 Painting for Non-Art Majors
ART 126 Fabric Design for Non-Art Majors

VI. Music (3 semester hours)

MUSC 101 Intro to Music of the Western Heritage (II.C.1)

VI. Physical Education (2 semester hours)

KNES 281 Physical Education for ELED Students I
KNES 282 Physical Education for ELED Students II

VIII. Additional Required Courses

ISTC 201 Using Information Effectively in Education (I.B.)
HLTH 101 Health/Wellness for a Diverse Society (II.B.3)

or

COMM 131 Fundamentals of Speech Communication (II.B.3)

or

SPPA 205 Basic Sign Language (II.B.3)

PSYC 101 Introduction to Psychology (II.C.2)

PSYC 201 Educational Psychology

ELED 321 Teaching Language Arts in the Elem School (I.D.)

Refer to the explanation of the General Education requirements in the section entitled The University Curriculum.

Professional Education

EDUC 401 Foundations of Education (3)
EDUC 417 Children's Literature (3)
ELED 311 Child & Elementary School Curriculum (3)
ELED 323 Teaching Reading in Elementary School (3)
ELED 363 Field Studies in Elementary Teaching (3)
ELED 365 Teaching Social Studies in the Elementary School (3)
ELED 379 Student Teaching (10)
ELED 429 Methods and Principles of Reading Instruction (3)
ELED 469 Student Teaching Seminar (3)
SPED 301 Introduction to Special Education (3)

Electives (6 credits)

Electives in sufficient number to total at least 126 semester hours are needed. Professional Education or Arts & Sciences courses are recommended.

Required Professional Education Sequence

First Semester

ELED 321*
ELED 323*
ELED 363*
EDUC 417*
SPED 301**
MUED 305**
EDUC 401**

Second Semester

ELED 311*
ELED 365*
ELED 429*
ARED 371 or
PHEC 324 or

Third Semester

BIOL 303*
PHSC 303*
MATH 323*
MATH 324*
SCIE 376*

Fourth Semester

ELED 379*
ELED 469*

NOTE: EDUC 401, 417, and SPED 301 must be taken prior to ELED 379/469

*Must be taken in prescribed sequence.

**Strongly recommended be taken in prescribed sequence.

Special Education

Courses leading to state certification in special education are available through the Department of Reading, Special Education and Instructional Technology. State certification is generic but age specific and requires 39 credits, many of which are already required for Early Childhood, Elementary, or Secondary Education majors. Interested students should consult Dr. Debi Gartland Coordinator of Special Education Programs, Hawkins Hall, 402-E.

SCHOOL LIBRARY/MEDIA

Elementary and Early Childhood students may acquire an additional state certification endorsement for school media center positions (Educational Media Associate, Level I) by adding 18 credits of certain ISTC electives to their major. Interested students should consult Dr. Cellestine Cheeks, School Library Media Coordinator, Hawkins Hall, 202.

Department of Reading, Special Education and Instructional Technology

Professors: JONES (Chair), GARTLAND, WALL

Associate Professors: BLAIR, BURTON, CHEEKS,

ROSECRANS

Assistant Professors: DABBAGH, DAILEY, DIETZ, KALYANPUR,

LASTER, MAXWELL

Visiting Assistant Professor: FEWSTER

Staff: Associate Director of the Computer Demonstration Center:

FULLER

Lecturers: BOONE, McLAUGHLIN

OFFICE

Hawkins Hall, Room 209, (410) 830-2568. or 830-2576.

PROGRAMS OF THE DEPARTMENT

The Reading, Special Education and Instructional Technology Department is responsible for courses that are not limited to a single teacher education program. The Education course listings include "core" and foundational education courses providing knowledge and skills of general application in teaching and training areas. The Instructional Technology and Special Education offerings also have K-12 applications.

The Department coordinates the Reading Programs and the Reading Center; the Learning Center; Developmental Reading courses; Special Education; and Instructional Technology. Graduate programs include the Master of Arts in Teaching, the Master's programs in Reading and in Instructional Technology.

SCHOOL MEDIA, LIBRARY INFORMATION SERVICES, AND INSTRUCTIONAL TECHNOLOGY

Elective courses in Instructional Technology allow students of any major to develop media design, production, and utilization competencies for business, government, non-profit, and educational settings.

School Library Media Certification

(Coordinator: Dr. Cestelle Cheeks, HH 202)

Students who major in Early Childhood, Elementary or Secondary Education may qualify for Maryland State Certification for school "librarian" or media center positions (Education Media Associate, Level I)

These courses are required in the concentration.

- | | |
|-----------|---|
| PSYC 201 | Educational Psychology (3) |
| SCED 319 | Survey of Educational Programs (3) |
| <i>or</i> | |
| SCED 341 | Principles of Secondary Education |
| ISTC 301 | Utilization of instructional Media (3) |
| ISTC 302 | Design and Production of Instructional Materials (3) |
| ISTC 311 | Media Center Administration (3) |
| ISTC 313 | Evaluation and Selection of Media (3) |
| ISTC 441 | Computer Technology and Utilization (3) |
| ISTC 471 | Reference and Information Sources (3) |
| ISTC 473 | Cataloging and Classification of Media (3) |
| ELEM 323 | Teaching Reading in the Elementary School <i>or</i> |
| SCED 460 | Teaching Reading in the Secondary School (3) |
| EDUC 417 | Children's Literature (3) <i>or</i> |
| EDUC 418 | Young Adult Literature (3) |
| SPED 301 | Introduction to Special Education (3) |
| ISTC 475 | Methods for Media Personnel in the Elementary School (2) |
| ISTC 477 | Methods for Media Personnel in the Secondary School (2) |
| ISTC 297 | Student Teaching: The Media Center in the Elementary School (6) |
| ISTC 398 | Student Teaching: The Media Center in the Secondary School (6) |

NOTE: To complete this M.S.D.E. approved certification program, the student must comply with the requirements of the Teacher Education Executive Board for Undergraduate Teacher Certification Programs.

Graduate Study in Instructional Technology

(Coordinator: Dr. Gary Rosecrans, HH 204)

The Department of Reading, Special Education and Instructional Technology offers a comprehensive graduate program which prepares professionals for careers in the instructional media field. The Instructional Development concentration is intended for those who wish to prepare for training and media positions in business, community and governmental settings. The School Library Media concentration is intended for the person who plans to direct a School Library Media Center operation. persons holding this degree are eligible for certification by the Maryland State Department of Education as an Educational Media Generalist (Level II). See the *Graduate Catalog* for details.

MASTER OF ARTS IN TEACHING

(Coordinator: Dr. Gary Kilarr, HH 403-H)

A graduate program specifically designed to improve the teaching of reading at all age levels is available for qualified students seeking initial Maryland State Certification as Reading Specialist K-12. See the *Graduate Catalog* for details.

The Reading Center

(Director: Dr. Barbara Laster, HH 107F)

This clinic provides diagnostic and remediation services for students of all ages. It provides practicum experiences for graduate students in the Master's degree program in Reading while providing assistance to individuals in the community with reading problems.

DEVELOPMENTAL READING

(Coordinator: L. Steven Boone, HH 206)

Remediation in reading skills is provided for Towson students through the Developmental Studies courses in reading scheduled by the Department of Reading, Special Education and Instructional Technology in collaboration with the learning Center. See Competency requirements for entering students under Undergraduate Admissions.)

The Learning Center

(Director: L. Steven Boone, HH 206)

The Center facilitates active learning in reading and related study skills for all students, but particularly for those registered in the Developmental Reading program. It also provides assistance in reading and spelling. Informational sessions for the National Teacher Examinations are also conducted through the Center.

SPECIAL EDUCATION

(Coordinator: Dr. Debi Gartland, HH 402-E)

Courses leading to state certification in special education are available through the Department of General Education. State certification is generic but age specific and requires 39 credits, many of which are already required for Early Childhood, Elementary, or Secondary Education majors.

Department of Secondary Education

Professors: BINKO, HINKLE, JESSUP, KILEY (Graduate Coordinator),
LAWLOR (*Chair*), NEUBERT, VOCKE
Associate Professor: LEAK, STOVER
Affiliate Associate Professor: PROFFITT
Assistant Professors: BLAKE, PETERSEN
Instructor: PARKER

OFFICE

Hawkins Hall, Room 405L, (410) 830-2562

PROGRAMS OF THE DEPARTMENT

The Department of Secondary Education offers 12 certification programs in the secondary subject areas of biology, chemistry, English, French, geography, general science, German, history, mathematics, physics, social science and Spanish.

Programs for teaching kindergarten through grade 12 in art, dance, health, music, and physical education are offered by these academic departments.

All teacher education programs are approved by the Maryland State Department of Education. Upon graduation in one of these programs, students are eligible for certification to teach in Maryland.

The programs of education for junior, middle and high school teachers are designed to bring about close integration between teaching methods and the practical experience of observation and student teaching. **Students are required to file a Declaration of Intention Form. A Secondary Education advisor is required in addition to an advisor in the major for the following majors: English Education, Geography Education, History Education, Mathematics Education, Modern Language Education, Science Education, or Social Science Education.** For information, come to Hawkins Hall 405L.

Formal Admission to the Program

Formal admission into the Secondary Education Program occurs when a student has met the following criteria:

1. Completion of at least 45 college credits
2. Completion of a written application, including an essay.
3. 2.5 cumulative average for all post-secondary institutions attended (submit original transcripts to CASE Office with application).
4. Proof of registration for the Communications Skills and General Knowledge sections of the NTE (National Teachers Examination); see below

Once these program admission requirements are met a student is permitted to enroll in "Principles of Secondary Education" and "Teaching Reading in the Secondary School". Prior to program admission students are permitted to take only "Educational Psychology" and "Introduction to Special Education, K-12."

Along with application for formal admission to the program, students should arrange to take the required Communication Skills and General knowledge sections of the NTE. Students should arrange to take these sections of the NTE (National Teacher's Exam) at the first opportunity so that remediation may be sought, if necessary, and proficiency be achieved before student teaching. The Communication Skills and General Knowledge section of the NTE **must be taken and passed prior to student teaching.** In some cases, supplementary work may be required of students who fail to demonstrate adequate reading and writing competencies. Information on NTE testing is available in the CASE Office (HH 302). Students will consult with education advisors to obtain results of the above tests and where necessary to plan for appropriate remediation. **Failure to satisfactorily remediate deficiencies in basic skills will result in denial of student teaching. Students must secure approval for student teaching from the Secondary Education Department; it is**

contingent upon successful completion of the required courses, demonstration of acceptable competencies in the tested areas, and meeting grade point average requirements (see GPA Requirement for Student Teaching.)

After introductory courses in the nature of today's schools and their students and appropriate field experiences, the prospective secondary teacher enters the student teaching semester. Methods, philosophy, techniques, and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching. Also required is a course in the sociological, philosophical, and historical foundations of education. To meet new areas of demand, areas of study are being developed in adult education, middle school education, special education, training, and writing and communications skills.

SECONDARY TEACHER EDUCATION

To obtain teaching certification at the secondary level, students must major in one of the following academic fields: Biology, Chemistry, English, French, Geography, German, Health, History, Mathematics, Natural Science, Physics, Social Science, or Spanish. In addition, students must satisfy the General Education requirements, take the National Teachers Exam and complete the Professional Education courses listed below.

Required Professional Education Courses

A minimum grade of "C" is required for all courses.

PSYC 201	Educational Psychology (3)
SCED 341	Principles of Secondary Education (4)
SCED 460	Using Reading and Writing in the Secondary Schools (3)

(Taken concurrently with Principles of Secondary Education and shares a required field experience.)

SPED 301	Intro. to Special Education (3)
	Methods of Teaching Major Subject (3-6)
ISTC 269	Laboratory in Instructional Hardware (1)
SCED 398	Student Teaching (12)
EDUC 401	Foundations of Education (3)

Additional requirements to be integrated into Gen Eds:

HIST 145	History of U.S. to Mid-19th Century (II.B.1) (3)
or	
HIST 146	History of U.S. Since Mid-19th Century (II.B.1) (3)
COMM 131	Fundamentals of Speech Communication II.B.3 (3)
	One Course in Non-Western Culture (3)*

*(See secondary education advisor for approved list of courses.)

Note: Some methods courses are offered spring or fall only. Check with your advisor.

Subject Major

Refer to the department under which a specific major is discussed. For instance, those interested in teaching History at the secondary level should refer to the Secondary Education Program of the History Department for specific requirements.

GPA Requirement for Student Teaching

Effective September 1988, all students must meet the following GPA requirements to be admitted to student teaching: 2.75 in major field and in professional education courses and 2.50 overall, based on transcripts from all institutions of high education attended. (Consult with SCED advisor.)

KINDERGARTEN-TWELFTH GRADE TEACHER EDUCATION PROGRAMS

Students may obtain certification to teach the following subjects at both the elementary and secondary levels: art, dance, health, library media, music, and physical education

Students must satisfy the General Education requirements, the professional education courses listed below, requirements for each major listed below, and GPA requirements (see GPA Requirement for Student Teaching).

Required Professional Education Courses

PSYC 201	Educational Psychology (3)
SCED 319	Survey of Educational Programs (3)
SPED 301	Introduction to Special Education (3)
_____	Methods of Teaching Major Subject in Elementary School (3-6)
_____	Methods of Teaching Major Subject in Secondary School (3-6)
ELED 379	Student Teaching in Elementary School (6-8)
SCED xxx	Student Teaching in Secondary School (6-7)
EDUC 401	Foundations of Education (3)

Additional requirements to be integrated into Gen Eds:

HIST 145	History of U.S. to Mid-19th Century (II.B.1) (3)
or	
HIST 146	History of U.S. Since Mid-19th Century (II.B.1)(3)
COMM 131	Fundamentals of Speech Communication II.B.3 (3)
_____	One Course in Non-Western Culture (3)*

**(See secondary education department or major advisor for approved list of courses).*

Teacher education programs exist in the following areas:

- Art Education
- Dance Education
- Health Education
- Library Media
- Music Education
- Physical Education

For required courses and special program information, consult the section of this *Catalog* dealing with each particular major.

Adult Education

The study of Adult Education is designed to prepare teachers of adults in settings outside the school. Particular emphasis is placed on the process of training in business, industry, government, and other institutions. The program has been planned cooperatively with Departments in the School of Business.

An introductory course in learning theories as applied to adults is followed by specialized courses in training techniques, planning instruction, evaluation techniques, design and creation of audiovisual materials, and safety education. Additional coursework in industrial psychology and related areas comprises the final component of the specialization.

Special Education

Courses leading to state certification in special education are available through the Department of General Education. State certification is generic but age specific and requires 39 credits, many of which are already required for Early Childhood, Elementary or Secondary Education majors. Interested students should consult Dr. Debi Gartland, 402-E Hawkins Hall, Coordinator of Special Education Programs.









The College of Fine Arts and Communication

The College of Fine Arts and Communication provides quality education in the following areas: studio art, art education, dance performance and education, music, music education, communication studies, mass communication, and theatre arts. The programs in the departments of Art, Dance, Music, Mass Communication and Communication Studies, and Theatre stress the importance of liberal arts education while offering specialized training and practical experience in respective fields enabling students to develop creative and analytical abilities.

Courses are offered for both majors and non-majors which enhance students' understanding and appreciation of the contributions of the arts and communication to human culture. The programs provide opportunities for majors to gain detailed knowledge, skills, and experience needed to begin careers or to enter graduate programs.

The College of Fine Arts and Communication maintains facilities that assist students and faculty in activities supporting curricular offerings. These include: the Fine Arts Center with a Concert Hall, Mainstage Theatre, Studio Theatre, Holtzman Gallery, Asian Arts and Culture Center, and many rehearsal and practice rooms; the University Union Art Gallery, Burdick Hall with facilities for dance; Stephens Hall Theatre, providing performance space for dance, opera, and musicals; and Van Bokkelen Hall and the Media Center, housing journalism and photojournalism laboratories, the debate and speech facility, WTMD-FM, WTSR-AM, radio-television-film laboratories, and the television station, WMJF.

Recognized as a fine arts center for Maryland, the college's mission continues to be enhancement in communication and the fine and performing arts. There are active international exchange programs including China, Germany, Korea, Russia, Italy, and the United Kingdom.

The College contributes to the cultural life of Towson and the metropolitan area by yearly providing numerous performances, exhibitions, film and video screenings, debates, lectures, and workshops

*Maravene Loeschke, Acting Dean
Charles Flippen, Acting Associate Dean*

COLLEGE OFFICE

Fine Arts Center
Room 394B
(410) 830-3288

Department of Art

Professors: BARTLETT (*Gallery Director*), BROWN, FIX, FLOOD, MEYER (*Chair*), PAULSEN, SUPENSKY

Associate Professors: BATES (*Art Education Coordinator*), JANIAN (*Art Coordinator, USM Program in Italy*)

Assistant Professors: ISAACS (*Honors Coordinator*), McCULLOUGH, PITMAN, ROBB

Instructors: LEE, PULLEN

Lecturers: BROADWATER, STEIN (*M.F.A. Coordinator*)

Regular Adjunct Faculty: G. AROUTIUNIAN, S. GARMEY, P. GLASGOW, R. HELLMAN, M. HLUCH, L. KOSIANSKI, B. MARCUS, R. MORGAN, S. TATMAN, J. VILLARRUBIA

Assistant to Chair: GARY COBERLY

Slide Library Assistant: KATHLEEN ADRIAN

Community Art Center: BONNIE REYNOLDS

Director, Asian Arts Center - Curator of the Collection: SUEWHELI T. SHIEH

OFFICE

Fine Arts Center, Room 358, (410) 830-2808; Fax (410) 830-2810

PROGRAMS OF THE DEPARTMENT

The Department of Art offers a comprehensive program comprising the following areas of concentration: *Art History, Ceramics, Fibers, Jewelry, Painting, Printmaking, Sculpture, and Visual Communications; Graphic Design, Illustration, and Photography*. Associated with these concentrations, five degree programs are offered: *the major in Studio Art, the minor in Studio Art, the major in Art Education, the Master of Education in Art Education and the Master of Fine Arts*.

The Art Department offers a comprehensive, full semester, Travel-Study Abroad Program as an integral part of the curriculum. Students register on campus, but pursue art courses in a foreign locale under University of Maryland System faculty direction.

The Art Department offers non-credit art instruction throughout the year for children and adults through the Community Art Center.

FACILITIES

The facilities available to the undergraduate and graduate student are extensive. They are designed to encourage and fully support the creative endeavors of students. Each area of concentration has the equipment necessary to assure that students reach their potential.

MAJOR IN STUDIO ART

Art majors must complete 66 credit hours in art. The major program consists of 42 credit hours of foundation requirements and 24 hours in an area of concentration. Visual communications students must fulfill 30 hours in their concentration, for a total of 72 credits.

Foundation Requirements (42 credits)

Certain subjects are fundamental to training in all of the arts. In the freshman and sophomore years, the student begins to acquire the technical skills necessary for a career in the arts. The foundation requirements form a basis for the ability to communicate in visual and verbal terms, to write about art, to explore media and ideas, and to think and respond creatively.

ART 103	Design I (3)
ART 104	Design II (3)
ART 111	Drawing I (3)
ART 211	Drawing II (3)
ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ART 229	Painting I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3)
ART 205	Human Figure (3)*
ART 2xx	Craft (3)
ART 234	Photography I (3)
ARTH 3xx/48	Upper Division in Art History (6)

*Students concentrating in Graphic Design only are exempt from this course.

Each Art major must complete an area of concentration before graduation. The area of concentration is designed to offer advanced studies and intensify the content necessary to develop career goals.

Crafts Concentrations

Ceramics (24 credits)

Required Courses (18 credits)

ART 231	Ceramics I (3)
ART 309	Ceramics: The Potters Wheel (3)
ART 310	Ceramics: Handbuilding (3)
ART 407	Ceramics: Clay Sculpture (3)
ART 409	Ceramics: The Vessel (3)
ART 497	Senior Project (3)

Elective Courses: (6 credits from among the following):

ART 400	Ceramic Raw Materials (3)
ART 414	Advanced Studio (in Ceramics) (3)
ART 415	Advanced Studio (in Ceramics) (3)
ART 416	Advanced Studio (in Ceramics) (3)
ART xxx	Any Upper Division Sculpture course (3)
ART xxx	Any Upper Division Craft course (3)
ART 31M	Ceramic Special Process (3)
ART 30M	Raku (3)

Fibers (24 credits)

Required Courses (21 credits)

ART 320	Fiber Construction (3)
ART 326	Fabric Design: Dyeing (3)
ART 327	Fabric Design: Printing (3)
ART 328	Weaving I (3)
ART 337	Quilting I (3)
ART 428	Weaving II (3)
ART 497	Senior Project (3)

Elective Courses: (3 credits from among the following)

ART 333	Papermaking (3)
ART 420	Fiber Construction II (3)
ART 426	Fabric Design: Dyeing II (3)
ART 427	Fabric Design: Printing II (3)
ART 437	Quilting II (3)

Jewelry (24 credits)

Required Courses (21 credits)

ART 314	Enameling I (3)
ART 318	Jewelry (3)
ART 418	Jewelry II (3)
ART 419	Jewelry III (3)
ART 4xx	Sculpture (Metal) (3)
ART 497	Senior Project (3)

Elective Courses (3 credits from among the following):

ART 413	Enameling II (3)
ART 414-416	Advanced Studio (3)
ART 490-492	Internship (3)

The History of 20th-Century Craft, a seminar course, is recommended as one of the upper-division Art History courses.

Painting (24 credits)

Choose 21 credits from among the following:

ART 336	Painting III (3)
ART 331	Watercolor I (3)
ART xxx	Upper Division Drawing (3)
ART 436	Painting IV (3)
ART 430	Watercolor II (3)
ART 3xx	Printmaking Course (3)
ART 360	Computer Art I (3)
ART 460	Computer Art II (3)
ART 497	Senior Project (3)

Electives: (Choose 3 credits from among the following):

ART xxx	Printmaking course (3)
ART xxx	Upper Division Drawing (3)
ART 4xx	Advanced Studio (3)
ART 462	Computer Art III (3)
ARTH 324	Modern Art II is required as one of the upper-division art history courses.

Sculpture (24 credits)

Required Courses (24 credits)

ART 318	Jewelry I (3)
ART 445	Experimental Directions (3)
ART 497	Senior Project (3)

Three of the following:

ART 339	Metal Concept and Process (3)
ART 340	Modeling: Concept and Process (3)
ART 311	Wood: Concept and Process (3)
ART 342	Carving: Concept and Process (3)

Two of the following:

ART 441	Advanced Sculpture I (3)
ART 443	Advanced Sculpture II (3)
ART 486	Industrial Design (3)
ART 414	Advanced Studio (3)
ART 415	Advanced Studio (3)
ART 416	Advanced Studio (3)

Printmaking Concentration

Required Courses (15 credits)

ART 347	Screen Process I (3)
ART 349	Relief Process I (3)
ART 350	Intaglio Process I (3)
ART 353	Lithographic Process I (3)
ART 3xx	Required second upper-division print course (3)

Electives (9 credits)

Select three upper-division art courses. Suggested: two painting courses.

Visual Communications Concentrations

Visual Communications is a general title referring to any form or component of Communication Arts and Design. After completion of the Foundation Program, Visual Communications students can emphasize one of three major areas: Graphic Design, Illustration, or Photography.

1. Graphic Design explores design for visual communication including computer, photography, exhibit design, and illustration. It is intended for those wishing to pursue careers as professional designers.
2. Illustration explores various forms of image-making, both traditional and contemporary, with emphasis on drawing and painting skills, concepts and personal style.
3. Photography explores the traditional and contemporary technical and creative language necessary to create interpretive images for the fine arts and for visual communication.
4. All Visual Communications majors must take Art 205 (Human Figure) with the exception of students emphasizing Graphic Design.

Graphic Design (33 credits)

ART 220	Exhibit Design (3)
ART 317	Graphic Design I (3)
ART 373	Illustration I (3)
ART 321	Computer Graphics I (3)
ART 334	Photography II
or	
ART 335	Photography III (3)
ART 421	Computer Graphics II (3)
ART 473	Illustration II (3)
ART 417	Graphic Design II (3)
ART 457	Graphic Design III (3)
ART 486	Industrial Design (3)
ART 497	Senior Project (3)

Illustration (30 credits)

Required Courses (24 credits)

ART 220	Exhibit Design (3)
ART 317	Graphic Designs I (3)
ART 373	Illustration I (3)
ART 321	Computer Graphics I (3)
ART 473	Illustration II (3)
ART 474	Illustration III (3)
ART 3xx/4xx	Elective (3)

ART 497	Senior Project
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Choose two from the following (6 credits)

ART 336	Painting III (3)
ART 331	Watercolor I (3)
ART 421	Computer Graphics II (3)
ART 414, 415, 416	Advanced Studio (3-6)

Photography (30 credits)

ART 220	Exhibit Design (3)
ART 321	Computer Graphics I (3)
ART 317	Graphic Design I (3)
ART 334	Photography II (3)
ART 335	Photography III (3)
ART 373	Illustration I (3)
ART 417	Graphic Design II (3)
ART 421	Computer Graphics II (3)
ART 436	Photography IV (3)
ART 497	Senior Project (3)

MINOR IN ART (24 credits)

Students who wish a Minor in Art should consult with their departmental advisor.

ART 103	Design I (3)
ART 104	Design II (3)
ART 111	Drawing I (3)
ART 229	Painting I (3)
ART 241	Sculpture I (3)
ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ART	Elective (3)
ART	Elective (3)

CONCENTRATION IN ART HISTORY

There are two options for the student concentrating in art history: one without studio work, and one that combines the studio foundation program with advanced course work in art history. *Students must choose which option they wish to follow.*

Art History Concentration Option 1

For those students who want to work in the curatorial, educational, public relations, or registration areas of the museum or gallery or who wish to go on to graduate school in the art history field. *This option has no studio requirements.*

To complete Option 1 the student must take a total of 45 upper-division credits. Of the 45 upper-division credits, a minimum of 27 credits, but not more than 36, must be taken in art history. If the student chooses to take the minimum 27 credits the difference between the 27 minimum and the 36 maximum may be taken in allied disciplines, such as English, History, and Philosophy, in a related historical period, subject to the approval of the faculty advisor. The remaining credits to reach the 45 upper-division total are electives, but they may also be taken in disciplines related to the student's interest in art history.

Required Courses (12 credits)

ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ARTH 391	Research Methods in Art History (3)
ARTH 485	Seminar in Art History (repeatable)(3)

Language Requirements

Two years of either German or French, or their equivalent by examination is strongly recommended but is not required.

Multi-Cultural Requirement (3 credits)

One course from the following:

ARTH 331	The Art of China (3)
ART 333	The Art of Japan (3)
ARTH 335	African-American Art (3)
ARTH 341	Women in Art (3)

Art History Courses - minimum of 24 credits, maximum of 33 credits

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)
ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)
ARTH 325	History of Modern Architecture (3)
ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 335	African-American Art (3)
ARTH 337	American Art (3)
ARTH 341	Women in Art (3)
ARTH 351	History of Photography (3)
ARTH 485	Seminar in Art History (repeatable) (3)
ARTH 495-97	Independent Study in Art History (1-3)
ARTH 499	Senior Honors Thesis (3)

Art History Concentration Option II

For those students who plan to go in the direction of art conservation, museum exhibition preparation, exhibition design, museum education and gallery work. Students following this option must take both studio and advanced art history courses.

Option II Required Courses - Studio (42 credits)

All students must follow the Foundation Requirements for the art major (*including the required art history courses*).

Option II Required Courses - Art History (6 credits)

ARTH 391	Research Methods in Art History (3)
ARTH 485	Seminar in Art History (repeatable)(3)

Electives (21 credits)

Three of the following:

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)

ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)

Two of the following:

ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)

One of the following:

ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 335	African-American Art (3)
ARTH 341	Women in Art (3)

One of the following:

ARTH 325	History of Modern Architecture (3)
ARTH 337	American Art (3)
ARTH 351	History of Photography (3)

Two years of either German or French, or their equivalent by examination is strongly recommended but is not required.

ART HISTORY MINOR (27 credits)**Requirements (12 credits)**

ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ARTH 391	Research Methods in Art History (Repeatable)(3)

Choose 5 from the following:

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)

ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)
ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)
ARTH 325	History of Modern Architecture (3)
ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 335	African-American Art (3)
ARTH 337	American Art (3)
ARTH 341	Women in Art (3)
ARTH 351	History of Photography (3)

MAJOR IN ART EDUCATION

Students in the Art Education program receive dual certification enabling them to teach art in Maryland in grades K-12. In addition to meeting the General Education Requirements, students complete 91 credits for the art education major. The entire program takes 5 years to complete. The art education block is taken in the last three semesters of the program.

Requirements for admission are as follows:

1. Junior standing;
2. An overall GPA of 2.75;
3. A GPA of 3.0 in the major;
4. An interview and portfolio review with the art education faculty;
5. Permission of the Art Education Department

To continue within the professional sequences and be eligible to student teach, students must fulfill the following requirements:

1. Maintain a 3.0 average in the art education sequence;
2. Maintain a 2.75 average in the professional course sequence;
3. Pass the core battery of the NTE (National Teacher's Examination) and the Speech and Hearing tests prior to student teaching.

Course Requirements for the Major Foundation Requirements (42 credits)

Foundation courses are required of art education majors. These courses are identical to those specified for studio majors, except that Ceramics I (ART 231) is required as the craft course.

Additional Studio Requirements (6 credits)

ART 317	Graphic Design I (3)
ART 347, ART 349, or ART 350	(Choose 1 for 3 credits)

Art Education Courses (31 credits)**First semester of the art education block (6 credits)**

ARED 381	Media and Techniques for Art Teachers: Elementary (3)
ARED 383	Media and Techniques for Art Teachers: Secondary (3)

Second semester of the art education block (10 credits)

ARED 461	K-12 Field Experience in Art Education: Observation(2)
ARED 463	K-12 Field Experience in Art Education: Teaching (2)
ARED 467	Methods of Teaching Art: Elementary (3)
ARED 469	Methods of Teaching Art: Secondary (3)

Third Semester of the art education block (15 credits)

ARED 481	Student Teaching in Art: Elementary (6)
ARED 483	Student Teaching in Art: Secondary (6)
ARED 485	Professional Seminar in the Teaching of Art (3)

Professional Courses (12 Credits)

PSYC 201	Educational Psychology (3)
SCED 319	Survey of Education Programs (3)
or	
SCED 341	Principles of Secondary Education (3)
for students entering with a degree	
SPED 301	Introduction to Special Education (3)
EDUC 401	Foundations of Education (3)

Additional Required Courses

PSYC 101	Introduction to Psychology (3)
HIST 145	U.S. History Before Mid-19 Century (3)
	or
HIST 146	U.S. History Since Mid-19th Century (3)
COMM 131	Fundamentals of Speech Communication (3)
	Approved Non-Western Culture course (3)

TRANSFER CREDIT POLICY

The Art Department accepts art credits from other accredited colleges and universities. Portfolio evaluation and transfer credit sheets form a basis for course evaluation.

ART HONORS PROGRAMS

The Art Department grants honors in Art Education, Art History and Studio Art. Admissions is granted at the end of the sophomore or beginning of the junior year to students who have the following qualifications: overall cumulative average of 3.25, major average of 3.25, recommendation of advisor to departmental honors coordinator. The minimum requirements for graduation with honors in Art are: overall cumulative average of 3.25 and 3.50 in major field and completion of the honors program of study.

CAREER OPPORTUNITIES

The Art Department, as a part of Towson State University, has a long tradition of preparing students as highly qualified teachers. To prepare students for other careers in art, the department, in conjunction with the Office of Internship/Cooperative Education, has developed internships in the business community. These internships provide students with the experience necessary for achieving success in commercials fields. Internships in interior design, graphic design, illustration and advertising are just a few of the experiences available.

STUDENT WORK POLICY

Material submitted by students to satisfy requirements in any course automatically becomes the property of the Art Department. This material may be returned to students at the discretion of the faculty member.

Department of Dance

Professor: BREAZEALE

Associate Professors: BRADLEY (Chair), MANN, PRICE

Visiting Instructor: KNUTSON

Part-time Faculty: COX, MARTIN, MEYERS, WANICH-ROMITA

OFFICE

Burdick Hall, Room 127, (410) 830-2760

PROGRAMS OF THE DEPARTMENT

The Department of Dance offers the following: a *Bachelor of Fine Arts degree in Dance Performance*, *The Bachelor of Fine Arts degree in Dance Performance and Education*, including teacher certification for students planning to teach dance in the public schools, *TED*, a professional company-in-residence, and the *Towson State University Dance Company*. The Department also co-sponsors the *Dance on the Edge series of modern dance performances*. The department also offers courses which fulfill General Education requirements I.D. (DANC 321), I.E (DANC 235), II.B.3(DANC 105 & 106), II.C.1 (DANC 102).

The BFA program is an intermediate step in the process of becoming a dance professional or graduate student. This program is based on dance as a studio art form. The experience of moving is the most potent way of understanding dance in this program. The faculty believes that dance involves cognitive, affective, and physical ways of doing and knowing and has innate cultural value. Studies in the BFA program at Towson State University provide intensive studio and theoretical exposure with an active professional faculty.

Towson State University is the only institution of high education in Maryland to offer the Bachelor of Fine Arts degree in Dance. All students major in Dance Performance. Students may elect to add the education component. Towson State University is an accredited institutional charter member of the National Association of Schools of Dance. The dance major program is also accredited by the National Council for Accreditation of Teacher Education and the National Association of State Directors of Teacher Education and Certification.

International programs are available at Dartington College of the Arts and the St. Petersburg Conservatory (formerly the Leningrad State Conservatory).

ADMISSION TO THE MAJOR

Students must first submit a written application to the Admissions Office. Pending acceptance into the university, students must audition for the Dance major. Auditions are held twice during February and March; prospective majors should contact the Dance Department for specific dates and an audition application form. The auditions determine the following:

1. acceptance into the Dance major
2. technical level for class placement
3. scholarship recipients
4. If a student is accepted into the dance major program and does not attend the following Fall, he/she must petition the faculty for later acceptance.

TRANSFER STUDENT POLICY

Students transferring from other institutions must complete a minimum of 20 credits of their dance course requirements in residence at Towson State.

MAJOR IN DANCE PERFORMANCE

The major in Dance Performance leads to the Bachelor of Fine Arts degree. Students in the major must complete 57 credits of required dance courses, 9 credits of required interdisciplinary courses, 12 credits of dance electives, General Education requirements, and the Performance Requirements outlined below. A grade of "C" or higher is required for all courses in the major.

Requirements for the Major**Dance Courses (57 credits)**

DANC 106	Fundamentals of Movement (3)
DANC 109	Jazz Dance I (2)
DANC 111	Tap I (2)
DANC 209	Jazz Dance II (2)
DANC 211	Tap Dance II ((2)
DANCE 223-4	Level I Ballet (4) (2 per sem)
DANC 227-8	Level I Modern (4) (2 per sem)
DANC 235	Composition I (2)
DANC 310	Jazz Dance III (2)
DANC 321	History of the Dance (Adv. Writing) (3)
DANC 323-4	Level II Ballet (6) (3 per sem)
DANC 327-8	Level II Modern (6) (3 per sem)
DANC 335	Composition II (3)
DANC 336	Composition III (3)
DANC 421	Scientific Bases for Dance Analysis (3)
DANC 423-4	Level II Ballet (3)
DANC 427-8	Level II Modern (3)
DANC 435	Composition IV (3)
DANC 480	Senior Project: Seminar (2)
DANC 491	Senior Project: Concert (3)

Required Cognates (9 credits)

THEA 101	Acting I (3)
THEA 263	Dance Design and Production (3)
MUSC 107	Fundamentals of Music (3)

Electives (12 credits)

DANC 101	The Alexander Technique (3)
DANC 105	Movement Skills Enhancement for Men (3)
DANC 109	Jazz Dance I (2)
DANC 209	Jazz Dance II (2)
DANC 111	Tap Dance I (2)
DANC 211	Tap Dance II (2)
DANC 201	Developmental Movement (2)
DANC 251	Methods of Teaching Dance (3)
DANC 310	Jazz Dance III (2)
DANC 341	Pointe Technique I (2)
DANC 342	Pointe Technique II (2)
DANC 351	Teaching Dance Technique (3)
DANC 370-379	Special Topics in Dance (1-3)
DANC 381-382	Dance Company (3,3)
DANC 383	Modern Dance Repertory (3)
DANC 384	Ballet Repertory (3)
DANC 451-551	Dance Education and Public Policies (3)
DANC 481-482	Dance Company (3,3)
DANC 492	Practicum in Dance Technique (variable)
DANC 495	Independent Study in Dance (1-3)

At least 3 credits of electives must be in Modern Repertory, Ballet Repertory or TU Dance Company.

Performance Requirements for Majors

To fulfill performance requirements for graduation, dance majors must audition for the TSU Dance Company a minimum of two times during their tenure at Towson and must fulfill one of the following:

1. Perform with the TU Dance Company (audition required) for a minimum of 2 years (4-8 credits possible) or Ballet or Modern Rep (3 cr each)
or
2. Perform in a minimum of 15 works composed in sections of Dance Composition III and IV other than those sections taken for credit by the student; maximum of 3 works may be from those selected for "Dance Majors Performance Project."
or
3. Approved plan by Department Chair for a combination of numbers 1 and 2 above
or
4. Transfer students must consult with the Chair of the Dance Department to arrange equivalent performing experiences.

Juries:

All dance majors will perform at a jury before faculty members at the end of the Spring semester of the sophomore year. The jury consists of a video portfolio of selections from the audition, movement exams and performances of each student. In addition, each student will perform a combination of movement material at the time of the jury. Written and verbal feedback will be given to each student, and progress toward the expected student outcomes for the B.F.A. degree will be assessed. This procedure is designed as a mechanism for assessing progress toward the degree. Should a major be assessed to be in difficulty from a technical or academic standpoint at this time, advising into an alternative major may occur.

Crews:

Each dance major is required to complete one crew assignment per year in the sophomore and junior years. The crew assignment for the sophomore year will be in connection with a studio performance, and the crew assignment in the junior year will be in connection with a performance in Stephens Hall Auditorium. Crew assignments will be coordinated by the Crew Coordinator at the beginning of the academic year. Successful completion of each crew is a requirement for graduation from the B.F.A. in Dance Performance.

MAJOR IN DANCE PERFORMANCE AND EDUCATION

Dance majors may also wish to obtain certification to teach dance at the elementary and secondary levels. Students in this program receive certification to teach dance at the Elementary and Secondary levels (K-12) in the public schools in Maryland and reciprocal states. The program leads to the Bachelor of Fine Arts degree in Dance Performance and Education.

Admission to the Dance Education program and student teaching requires 1) admission to the university; 2) admission to the major; and 3) a personal interview. Continuance in the program requires the maintenance of an overall QPA of 2.5 and a QPA of 2.75 in the major. Students must also pass all tests required of Teacher Education candidates.

Students whose QPA falls below the minimum requirement will be placed on departmental probation and given one semester to improve their QPA. Failure to do so may result in suspension from the program.

Students must complete the required dance courses (54 credits of the 57), (3 credits of Level I Ballet and Modern, 12 credits of Level II Ballet and Modern and an additional 6 credits of Level II or III Ballet and/or Modern), the required interdisciplinary courses (9 credits), General Education requirements, the Performance Requirement outlined above, and the following dance and education courses (42 credits).

DANC 201	Developmental Movement (2)
DANC 251	Methods of Teaching Dance (3)
DANC 391	Student Teaching in Elementary School (6)
DANC 392	Student Teaching in Secondary School (6)
DANC 451	Dance Education and Public Policies (3)
PHED 183	Ballroom/Folk/Square Dancing (1)
PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)
SCED 319	Survey of Educational Programs (3)
EDUC 401	Foundations of Education (3)
SPED 301	Introduction to Special Education K-12 (3)

SCHOLARSHIPS

To qualify for a dance scholarship, students must be full-time Dance majors. Scholarships are renewed as long as the criteria are met and the student remains in good academic standing. Scholarship students are required to participate in department service approximately 4-6 hours per week. Students select the assignments each semester.

HEALTH POLICY

The department requires students to demonstrate an appropriate level of physical fitness, in accordance with the department's health policy, in order to participate in departmental activities. The policy is distributed to all majors in the fall semester.

DEPARTMENTAL ACTIVITIES

The Towson State University Dance Company provides performing experience to students in a wide variety of genres such as tap, jazz, modern dance, and ballet. Guest choreographers distinguished in the profession are invited each year to stage works for the company. Additional performing opportunities include the Dance Majors Performance Project, informal studio showings, and participation in regional college dance festivals.

Other departmental activities include: Children's Dance Division for ages 4-18; a Summer Dance Camp for ages 10-18; a visiting artist-in-residence program; an annual Alumni Dance Concert; the Dance Majors' Performance Project, and participation in the American College Dance Festival.

CAREER OPPORTUNITIES

Undergraduates currently enrolled at Towson State supplement their studies with part time work teaching and choreographing for local institutions and agencies. During the summer months many students attend professional training programs such as American Dance Festival, Bates Dance Festival, and White Mountain Dance Festival.

To date, the majority of Towson State graduates in dance are employed in full- and part-time dance positions ranging from professional performers to teachers in public schools and private studios. Many go on to graduate school to further their dance education and become university faculty members.

Department of Mass Communication & Communication Studies

Professors: COWAN, LEV, LOGUE, MATLON (*Chair*), VATZ

Associate Professors: FALLFR, FLIPPEN, HORNE, KIM, LIEB,

MACKERRON, McELREATH, MOORE, TURNER, WEISS, YUM

Assistant Professors: BASSO, BRODA-BAHM, HALLER, LEE, TARWATER

Instructors: GIST, STANLEY

Visiting Instructors: IRWIN

OFFICE

Van Bokkelen Hall, Room 109-111, (410) 830-3431

PROGRAMS OF THE DEPARTMENT

The Mass Communication & Communication Studies Department offers the following programs of study: the *Communication Studies major*, the *Mass Communication major*, *minors in both Communication Studies and Mass Communication* and the *Master of Arts in Mass Communication*. In addition, the department participates in a multidisciplinary program offering a *Master of Science in Human Resource Development*.

The Department of Mass Communication & Communication Studies focuses on the study of the structure, processes, aesthetics, functions, and effects of human communication and mass media. In this, the most broad-based program in Maryland and the region, students have the opportunity and flexibility to gain knowledge and skills in a wide array of communication fields. In addition, the study of human communication and mass media involves a strong practical content.

At the undergraduate level, the department seeks to contribute to a broad, liberal education for majors and non majors by raising their level of oral, visual, and written communication literacy, as well as their critical thinking abilities, by developing their understanding and appreciation of human message exchanges, and by recognizing how mass media and speech influence our social, political, artistic, and cultural existence. In addition, the department seeks to provide knowledge as well as skill needed for future employment in radio, television, film, journalism, advertising, and public relations industries and/or in business, law, government, education, and consulting wherein communication skills are essential.

At the graduate level, the program in mass communication serves two kinds of students: those seeking to build career-oriented skills and qualifications, and those who intend to pursue advanced studies. Students have the opportunity to study theory, criticism, and research methods, and to enhance professional skills appropriate to their career goals. The program integrates television, public relations, journalism, radio, film, communication theory, and organizational communication, emphasizing the interrelationships and interactions of various media. The program also offers some specialization through elective courses.

The faculty of the Department of Mass Communication & Communication Studies is committed to scholarly research and/or creative productions in the department's various areas of expertise. As part of a metropolitan university's role in serving the region, the department is pledged to providing service to the University and to a larger community in a variety of ways such as through its radio and television stations WTMD-FM and WMJF, film and video series, and forensics program, as well as faculty and student presentations, workshops, and professional networking.

MAJOR IN COMMUNICATION STUDIES

(formerly Speech Communication)

The general purpose for majoring in Communication Studies is to understand and apply the process and function of human communication, as well as the foundations of communication theory, to the student's own discourse and to an evaluation of the discourse of

others. In addition, the major allows a student to develop skills in communication as a method of inquiry and advocacy.

Specifically, the major is intended to accomplish two objectives. First, students will be given several different opportunities to develop personal skills which enable them to secure public and private sector positions requiring communication competencies (i.e., speaking, writing, critical thinking, and advocacy skills for interpersonal, organizational, and public settings). Second, students will become more liberally educated in personal and societal value structures, ethics, cultural heritage, and the impact of messages upon the individual and society.

A major in Communication Studies is preparation for a career in government, private industry, or education in such areas as personnel, sales, lobbying, internal (organizational) communication, public affairs, corporate relations, law, religion, teaching, or communication consulting.

Communication Studies Major **Requirements for the Major**

The Communication Studies major requires a total of 36 credits: 12 credits in the core, 9 credits of theory and criticism courses, 6 credits of applied communication courses, and 9 credits of electives as listed below.

Required Core Courses (12 credits)

- COMM 115 Introduction to Interpersonal Communication (3)
- COMM 131 Fundamentals of Speech Communication (3)
- MCOM 411 Communication Process (3)
- COMM 419 Organizational Communication (3)

Theory and Criticism Courses (9 credits)

- COMM 304 Persuasion (3)
- COMM 321 Interpersonal Communication (3)
- MCOM 352 Media Criticism (3)
- COMM 379 Intercultural Communication (3)
- MCOM 385 Mass Media and Society (3)
- COMM 480 Communication Research (3)

Applied Communication Courses (6 credits)

- COMM 216 Group Discussion (3)
- OR
- COMM 315 Business and Profession Communication (3)
- COMM 331 Advocacy and Argument (3)
- or 3 credits from the following
- COMM 249 Forensics I (1.5)
- COMM 250 Forensics II (1.5)
- COMM 349 Forensics III (1.5)
- COMM 350 Forensics IV (1.5)
- COMM 30M Special Topics in Forensics (3)

Electives (9 credits)

- MCOM 214 Principles of Advertising (3)
- MCOM 253 Principles of Public Relations (3)
- COMM 301 Nonverbal Communication (3)
- COMM 303 Advanced Public Speaking (3)
- MCOM 368 Genre Theory and Criticism (3)
- COMM 418 Communication Training and Development (3)
- COMM 420 Communication in the Legal Process (3)
- COMM 422 Conference and Meeting Management (3)
- COMM 425 Evidence and Credibility (3)
- MCOM 431 Public Opinion and the Press (3)
- COMM 470 Special Topics in Communication (3)
- COMM 490 Internship in Communication Studies (1-6)*
- COMM 495 Independent Study in Communication Studies (1-6)*

Or any of the courses listed above under theory and criticism or applied communication.

Notes:

- (1) No more than 3 credits of independent study and/or internships can be applied to the Communication Studies major.
- (2) The Pass/D/F option is not available for courses applied to the major.
- (3) The Bachelor of Arts may be earned by adding a foreign language to the major course requirements.
- (4) Students who may wish to double major in Communication Studies and Mass Communication may apply up to 12 credits simultaneously for the satisfaction of both majors.

- (5) Students who wish to major in Communication Studies and minor in Mass Communication may apply up to 6 credits simultaneously for the satisfaction of both major and minor.
- (6) Transfer students are required to take 21 hours in residence in the major area. The department will transfer into the major up to 15 semester hours of compatible courses.
- (7) Although the following courses cannot be applied to the major, Communication Studies students are advised to take the following courses, some of which may qualify as GenEd requirements: AMST 201 Introduction to American Studies (3), ANTH 207 Cultural Anthropology (3), ENGL 251 Applied Grammar (3), ENGL 313 Advanced Composition (3), ENGL 317 Writing for Business and Industry (3), ENGL 318 Advanced Informational Writing (3), ENGL 351 Structural Linguistics (3), MNGT 361 Management and Organizational Theory (3), MNGT 381 Human Resources Administration (3), MNGT 453 Conflict Resolution in Business (3), PHIL 141 Logic (3), PHIL 221 Ancient Greek Philosophy (3), PHIL 341 Ethics (3), POSC 483 Seminar: Politics and the News Media (3), PSYC 209 Consumer Behavior (3), PSYC 409 Organizational Psychology (3), PSYC 431 Group Dynamics (3), SOCI 301 The Family (3), SOCI 313 Introduction to Social Psychology (3), SOCI 315 Communication and the Social Order (3), SOCI 331 Organizations (3).

MINOR IN COMMUNICATION STUDIES

The Communication Studies minor requires 24 credits: 12 credits in the core, 3 credits of theory and criticism courses, 3 credits of applied communication courses, and 6 credits of electives as listed below.

Communication Studies Minor **Required Core (12 credits)**

(See list under the major requirements)

Theory and Criticism Courses (3 credits) (See list under the major requirements)

Applied Communication Courses (3 credits) (See list under the major requirements)

Electives (6 credits) (See list under the major requirements)

Notes:

- (1) No more than 3 credits of independent study and/or internships can be applied to the Communication Studies minor.
- (2) The Pass/D/F options not available for courses applied to the minor.
- (3) The department will transfer into the minor up to 9 semester hours of compatible courses.
- (4) Students who wish to minor in Communication Studies and major in Mass Communication may apply up to 6 credits simultaneously for satisfaction of both minor and major.

MAJOR IN MASS COMMUNICATION

The Mass Communication major focuses on the study of the structures, processes, aesthetics, functions, responsibilities, and effects of the mass media. The courses in the major are broad and diverse in method and content as the study of mass communication requires. In addition, the study of mass communication involves a strong pragmatic component.

The objectives of the Mass Communication major are (1) to provide a liberal education of its students and (2) to provide training for students pursuing careers in communication.

The Mass Communication major is committed to the broad liberal education of its students. They are encouraged to develop and refine oral, visual, and written skills and to cultivate critical thinking ability through a sophisticated understanding of human message exchanges. They are also expected to achieve a mature recognition of the ways in which the mass media influence social, political, artistic, and cultural existence. In addition, the Mass Communication major provides specific training in journalism, film, television, broadcast journalism, radio, advertising, and public relations.

Rather than restricting students to specific sequences or tracks, the major permits students to choose a wide variety of courses. The Mass Communication graduate has many career options. Additionally, the

student acquires knowledge of the interdependency of various media channels, functions, and applications.

Requirements for the Major

The Mass Communication major requires 36 credits: 9 credits of approved introductory courses, 3 credits of approved media writing courses, 3 credits of MCOM 411, and 21 credits of electives. Selection of appropriate course sequences allows a student to be a mass communication generalist or a specialist in any of seven areas (see recommended course sequences below). The entire major in Mass Communication is offered in the daytime. However, only the Generalist concentration is available in the evenings. Students are reminded that it is their responsibility to check all prerequisites before registering for any course.

Introductory Courses (9 credits)

MCOM 125	Introduction to Public Relations and Advertising (3)
MCOM 140	Introduction to Electronic Media (3)
MCOM 145	Introduction to Film (3)
MCOM 151	Introduction to Journalism (3)

Media Writing Course (3 credits)

MCOM 355	News writing (3)
MCOM 357	Public Relations Writing (3)
MCOM 377	Broadcast/Film Writing (3)

Required Theory and Research Course (3 credits)

MCOM 411	Communication Process (3)
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Electives (21 credits)

Recommended Course Sequences for the Electives

A For Generalists in Mass Communication

MCOM 352	Communication Process (3)
MCOM 385	Mass Media and Society (3)

Plus 15 credits of Mass Communication or Communication Studies courses not taken to fulfill any of the requirements listed above.

B. For Students Specializing in Journalism

COMM 304	Persuasion (3)
MCOM 350	Media Law (3)
MCOM 355	News writing (3)
MCOM 356	Feature Writing (3)
MCOM 358	News Editing (3)
MCOM 359	Magazine Publishing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 383	News Reporting (3)
MCOM 385	Mass Media and Society (3)
MCOM 391	Photojournalism I (3)
MCOM 415	Mass Media Graphics (3)
MCOM 457	Photojournalism II (4)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (3)
MCOM 496	Independent Study in Journalism (1-6)*

C. For Students Specializing in Film

MCOM 205	Images of Women in Film (3)
MCOM 267	Filmmaking I (3)
MCOM 271	Television Production I (3)
MCOM 352	Media Criticism (3)
MCOM 361	Documentary Film and Videotape (3)
MCOM 362	Experimental Film and Videotape (3)
MCOM 364	Aesthetics of the Film (3)
MCOM 367	Filmmaking II (3)
MCOM 368	Genre Theory and Criticism (3)
MCOM 371	Television Production II (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 430	The Media Producer (3)
MCOM 436	Video and Film Editing (3)
MCOM 455	Directing for Film (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 473	Filmmaking III (3)
MCOM 475	Film Workshop (3)
MCOM 478	Special Topics in Film (3)
MCOM 491	Independent Study in Film (1-6)*

D. For Students Specializing in Television

COMM 131	Fundamentals of Speech Communication (3)
MCOM 265	Radio Production I (3)
MCOM 271	Television Production I (3)
MCOM 352	Media Criticism (3)
MCOM 361	Documentary Film and Videotape (3)
MCOM 362	Experimental Film and Videotape (3)
MCOM 363	History of Film (3)
MCOM 371	Television Production II (3)
MCOM 375	Broadcast Performance (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 385	Mass Media and Society (3)
MCOM 436	Video and Film Editing (3)
MCOM 453	Public Relations Campaigns (3)
MCOM 460-461	Internship in Mass Communication (3)*
MCOM 471	Television Production III (3)
MCOM 476	Special Topics in Television (3)
MCOM 479	Special Topics in Mass Communication (3)
MCOM 495	Independent Study in Electronic Media (1-6)*

Or any departmental course in Advertising or Communication Studies.

E. For Students Specializing in Broadcast Journalism

MCOM 350	Media Law (3)
MCOM 352	Media Criticism (3)
MCOM 355	News writing (3)
MCOM 356	Feature Writing (3)
MCOM 361	Documentary Film and Videotape (3)
MCOM 375	Broadcast Performance (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 383	News Reporting
MCOM 385	Mass Media and Society (3)
MCOM 431	Public Opinion and the Press (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (3)
MCOM 493	Independent Study in Radio (3)
MCOM 495	Independent Study in Electronic Media (1-6)*
MCOM 496	Independent Study in Journalism (1-6)*

Or any course in Communication Studies.

F. For Students Specializing in Radio

COMM 131	Fundamentals of Speech Communication (3)
MCOM 265	Radio Production I (3)
MCOM 352	Media Criticism (3)
MCOM 365	Radio Production II (3)
MCOM 375	Broadcast Performance (3)
MCOM 377	Broadcast/Film Writing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 453	Public Relations Campaigns (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (3)
MCOM 493	Independent Study in Radio (1-6)*

Or any departmental course in Advertising or Communication Studies.

G. For Students Specializing in Advertising

MCOM 214	Principles of Advertising (3)
MCOM 325	Advertising Copywriting (3)
COMM 331	Advocacy and Argument (3)
MCOM 350	Media Law (3)
MCOM 358	News Editing (3)
MCOM 359	Magazine Publishing (3)
MCOM 360	Advertising Campaigns: Portfolio Design (3)
MCOM 370	International Advertising (3)
MCOM 391	Photojournalism I (3)
MCOM 415	Mass Media Graphics (3)
MCOM 440	Advertising Media Sales (3)
MCOM 445	Corporate or Institutional Advertising (3)
MCOM 457	Photojournalism II (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (1-6)*

H. For Students Specializing in Public Relations

MCOM 214	Principles of Advertising (3)
MCOM 253	Principles of Public Relations (3)
COMM 304	Persuasion (3)
COMM 331	Advocacy and Argument (3)
MCOM 350	Media Law (3)

MCOM 355	Newsriting (3)
MCOM 357	Public Relations Writing (3)
MCOM 415	Mass Media Graphics (3)
COMM 419	Organizational Communication (3)
COMM 422	Conference and Meeting Management (3)
MCOM 451	Public Relations for Nonprofit Organizations (3)
MCOM 453	Public Relations Campaigns
MCOM 459	Professional Issues in Public Relations (3)
MCOM 460-469	Internship in Mass Communication (1-6)*
MCOM 479	Special Topics in Mass Communication (3)
COMM 480	Communication Research (3)
MCOM 497	Independent Study in Public Relations (1-6)*

Notes:

- (1) The Pass/D/F option is not available for courses applied to the major.
- (2) The Bachelor of Arts may be earned by adding a foreign language to the Mass Communication major.
- *(3) No more than 6 credits of independent study and/or internships can be applied to the Mass Communication major.
- (4) Students who wish to double major in Mass Communication and Communication Studies may apply up to 12 credits simultaneously for satisfaction of both majors. Students who wish to major in Mass Communication and minor in Communication Studies may apply 6 credits simultaneously for satisfaction of both major and minor.
- (5) Mass Communication majors are required to take COMM 131 (Fundamentals of Speech Communication) as prerequisite to MCOM 411 (Communication Process). COMM 131 also fulfills GenEd II.B.3.
- (6) Transfer students are required to take 21 hours in residence in their major area. The department will transfer up to 15 semester hours of compatible courses.

MINOR IN MASS COMMUNICATION**Requirements for the Minor**

The Mass Communication minor requires a total of 24 credits: 9 credits in approved introductory courses, 3 credits of approved media writing courses, 3 credits of MCOM 411, and 9 credits of electives as listed below.

Introductory Courses (9 credits)

MCOM 125	Introduction to Public Relations and Advertising (3)
MCOM 140	Introduction to Electronic Media (3)
MCOM 145	Introduction to Film (3)
MCOM 151	Introduction to Journalism (3)

Media Writing Course (3 credits)

(See list under the major requirements).

Required Theory and Research Course (3 credits)

MCOM 411	Communication Process (3)
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Electives (9 credits)

Any upper-division courses in the department.

Notes:

- (1) The Pass/D/F option is not available for courses applied to the minor.
- (2) No more than 3 credits of independent study and/or internships can be applied to the Mass Communication minor.
- (3) Minors in Mass Communication are required to take COMM 131 (Fundamentals of Speech Communication) as a prerequisite to MCOM 411 (Communication Process). COMM 131 also fulfills GenEd II.B.3.
- (4) The department will transfer into the minor up to 9 semester hours of compatible courses.
- (5) Students who wish to minor in Mass Communication and major in Communication Studies may apply up to 6 credits simultaneously for satisfaction of both minor and major.

INTERNSHIP INFORMATION

Internship eligibility requirements for Communication Studies and Mass Communication are as follows:

1. Junior or Senior status.
2. Major must be declared.
3. Completion of courses related to the area of internship concentration, specifically:

MCOM 140 and 271 prior to any television or broadcast journalism-related placement.

MCOM 151 and 355 prior to any print journalism placement.

MCOM 145 and 267 prior to any film placement.

MCOM 140 and 265 prior to any radio or broadcast journalism-related placement.

MCOM 125 and 253 prior to any public relations placement.

MCOM 125 and 214 prior to any advertising placement.

COMM 115 and 131 prior to any Communication Studies placement.

4. GPA requirement: 2.75 overall; 3.0 in the major. Waivers are considered by the department chairman.

For further information, contact the Internship Office.

DEPARTMENTAL SCHOLARSHIPS

The Patrick J. O'Connell Memorial Scholarship is available for Mass Communication students with a special interest in Broadcast Journalism, Cinematography, Journalism, or Public Relations. Other scholarships include the Eddie Ballard Award for Journalism, the O'Connor Broadcasting Scholarship Endowment, the George Rogers Jr. Memorial Scholarship, the Murtin Scholarship, the Public Relations Society of America Scholarship, and forensic program scholarships. For scholarship information and deadlines, contact the department scholarship coordinator.

DEPARTMENTAL ACTIVITIES

Departmental activities include support for the following active student organizations: Forensics Union (Debate Team), Pi Kappa Delta (national honorary forensic society), Alpha Epsilon Rho (national honorary broadcasting society), Film and Video Society, the American Advertising Foundation Chapter, the Public Relations Student Group, and the Society for Professional Journalists. Students are also encouraged to participate in the activities of the departmental newsletter, *Segue*, the visual media laboratory, the campus radio stations, WTSR-AM and WTMD-FM, and the campus television station, WMJF-TV.

GRADUATE PROGRAM

The Master of Arts in Mass Communication serves two kinds of students: those seeking to build career-oriented skills and qualifications, and those who intend to pursue advanced studies. Students have the opportunity to study theory, criticism, and research methods, and to enhance professional skills appropriate to their career goals.

The program integrates television, public relations, journalism, radio, film, communication theory, and organizational communication, emphasizing the interrelationships and interactions of various media. The program also offers some specialization through elective courses.

The Master of Science Degree in Human Resource Development is designed to meet the needs of business, industry, non-profit organizations or government by preparing individuals at the graduate level to design, implement and evaluate employee developmental programs. This is an interdisciplinary program that includes course work in several other departments of the university.

Detailed information regarding both graduate programs is included in the *Graduate Catalog*.

Department of Music

Professors: BARCZYK, BRISCUSO, GRISWOLD, MARCHAND, MARK, REYES, SCHMIDT (*Chair*), SPACHT, SZABO

Associate Professors: ANTHONY, LA. CRAWFORD, JOTHEN, PHILLIPS, RAUSCHENBERG, TAN

Assistant Professors: LE. CRAWFORD, KLEINSASSER, MERANI, PALANKER, RARDIN, ROTHLSBERGER, THOMPSON

Instructors: CASHMAN, DECKER, WATTS

OFFICE

Fine Arts Center, Room 375. (410) 830-2839

PROGRAMS OF THE DEPARTMENT

The Music Department offers two major degree programs in music. The first is a *Bachelor of Music* with concentrations in *Vocal Performance*, *Instrumental* (Winds, Strings, Percussion, and Guitar) *Performance*, *Keyboard* (Piano and Pipe Organ) *Performance*, *Music Literature*, *Composition* and a *Jazz/Commercial* program in either *Performance* or in *Composition*. The second degree is a *Bachelor of Science* with a concentration in either *Instrumental Music Education* or *Vocal-General Music Education*. Students enrolled in either degree program may, upon completion of the language requirement, receive a B.A. degree. Students pursuing the B.A. degree are required to complete the intermediate courses, or the equivalent, of a modern foreign language. Although there are courses common to all degree programs and concentrations, each is designed with its own special requirements, especially in the junior and senior years. These requirements are found on the following pages. A *Music Minor* is available for those students who desire to pursue music studies as a secondary field.

Students who wish to apply to the Music Department must write to or call the Music Department as well as the Director of Admissions of the university. Applicants will receive information from both offices regarding the necessary entrance requirements and procedures. **Admission to the university does not guarantee acceptance to any of the Music Majors.**

Every Music major must enroll for Private Lessons on an instrument or in voice with an instructor provided by the university. All students must perform before a faculty jury at the end of each semester in which they are enrolled in Private Lessons.

In order to continue into the upper-division level, students will be evaluated during their fourth semester as to their academic and performing competencies. This assessment will include an extended jury examination of at least double length.

All students, excepting those pursuing a concentration in Literature, will perform in recital with permission of their applied instructors. The Music Education and Composition concentrations require a Senior Recital, while the Performance concentrations require both Junior and Senior Recitals. Students must enroll in Private Lessons the semester(s) of their recital(s). Senior Recital may not be taken during the same semester as student teaching. There is a \$15 fee assessed each student who performs in recital (MUSC 399, MUSC 498, MUSC 499, MUSC 797, MUSC 897).

All students must reach the level of piano proficiency established for each degree and concentration. Music Education, Organ, Composition and Literature majors must pass the Piano Proficiency Test. This test is administered each semester.

Ensemble participation is required of all students. Each degree program and/or concentration has its own set of expectations. These are listed under the degree requirements found on the following pages.

All students are required to attend 60 approved, on-campus recitals/concerts before permission is granted to perform in senior recital. Of these 60, 12 must be faculty performances. For transfer students these numbers are pro-rated.

Majors must earn at least a "C" semester grade in all music major courses, ensembles, and lessons. Besides the required music major courses, all students must fulfill the GenEd requirements found elsewhere in this Catalog. Notes: (1) GenEd II.C.1. is fulfilled by

MUSC 102 and (2) GenEd I-D is fulfilled by MUSC 302. University regulations require that students accrue no fewer than 32 upper-division (300, 400) credits for graduation.

The Music Department also participates in the Elementary Education Program by offering, to those majors, Music Fundamentals, and a specific section of Teaching Music in the Elementary School.

CORE COURSES FOR ALL DEGREES AND CONCENTRATIONS

The following core courses (28-31 credits) are required for all majors and concentrations in the Music Department.

MUSC 102	Introduction to Music of the Western Heritage: Analytic Emphasis (3)
MUSC 131	Theory I (2)
MUSC 132	Theory II (2)
MUSC 133	Musicianship I (2)
MUSC 134	Musicianship II (2)
MUSC 231	Theory III (2)
MUSC 232	Theory IV (2)
MUSC 233	Musicianship III (2)
MUSC 234	Musicianship IV (2)
MUSC 217	Piano Class I (excepting Music Education and Keyboard majors) (1)
MUSC 218	Piano Class II (excepting Music Education and Keyboard majors) (1)
MUSC 235	Keyboard Harmony (excepting Music Education and Keyboard majors) (1)
MUSC 301	History of Music I (3)
MUSC 302	History of Music II (3)
MUSC 435	Form and Analysis (excepting Jazz Performance concentration) (3)

MAJOR IN MUSIC EDUCATION

Students majoring in Music Education are required to complete the core courses (28 credits), the education core courses (27 credits) and the GenEd requirements. Students choose from two areas of concentration: the Vocal-General Music Education concentration (31-35 credits) and the Instrumental Music Education concentration (37.5-38.5 credits). Students in this program receive certification to teach music at the K-12 level in Maryland (and other states with whom reciprocal agreements exist) upon graduation. Certification requires successful completion of the NTE and TSU Speech and Hearing screenings.

Requirements for the Major

Music Education Professional Core Courses (27 credits)

PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)
MUED 310	Introduction to Music in Special Education (3)
SCED 319	Survey of Education (3)
EDUC 401	Foundations of Education (3)
MUED 391	Elementary Student Teaching (6)
MUED 392	Secondary Student Teaching (6)

Vocal-General Music Education Concentration (31-35 credits)

MUSA var	Applied Private Lessons in one applied area (7)
MUSC var	Six semesters in ensemble, five of which must be in University Chorale or Choral Society, one of which may be in early Music Ensemble or Chamber Singers; additional voice requirement, one semester Opera Workshop; additional guitar requirement, four semesters Guitar Ensemble (6-10)
MUSC 221	Voice Class I: guitar and keyboard majors only (1)
MUED 241	Teaching Guitar in the Classroom (2)
MUSC 327	Choral Conducting
MUSC 335	Choral and Instrumental Arranging (3)
MUED 307	Methods of Teaching Vocal-General Music in the Elementary School (4)
MUED 309	Methods of Teaching Vocal-General Music in the Secondary School (2)

- MUED 337 Teaching Choral Music in the Elementary and Secondary School (2)
 MUED 498 Senior Recital (1) Music Education majors

Instrumental Music Education Concentration (37.5 - 38.5 credits)

- MUSA var Applied Private Lessons in one instrument or percussion area (7)
 MUSC var Ensembles: wind and percussion majors take six semesters in Band or Orchestra, two semesters in Marching Band, one semester in Conducting Lab Ensemble; string majors take seven semesters in Orchestra or Band, one semester in Marching Band, one semester in Conducting Lab Ensemble (9)
 MUSC 221 Voice Class I (1)
 MUSC 211 Brass Class I (1)
 MUSC 212 Brass Class II (1)
 MUSC 215 Percussion Class I (1)
 MUSC 216 Percussion Class II (1)
 MUSC 236 Percussion Workshop (percussion majors only who omit 215/216) (1)
 MUSC 219 Lower String Class (1)
 MUSC 220 Upper String Class (1)
 MUSC 223 Woodwind Class I (1)
 MUSC 224 Woodwind Class II (1)
 MUSC 307 Marching Band Techniques (0.5)
 MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUED 306 Methods of Teaching Instrumental Music in the Elementary School (4)
 MUED 308 Methods of Teaching Instrumental Music in the Secondary School (2)
 MUED 498 Senior Recital (1) Music Education majors
 MUED 499 Senior Recital (1) Performance majors

MAJOR IN MUSIC

Students majoring in Music are required to complete the core courses, the concentration requirements and the GenEd requirements. Areas of concentration include Performance, Composition, Literature and Jazz/Commercial.

Requirements for the Major

Voice Performance Concentration (52 credits)

- MUSA var Applied Private Voice Lessons (16)
 MUSC var Ensemble: Six semesters in either University Chorale or Choral Society, two semesters in Opera Workshop, four credits from above or from Early Music Ensemble or Chamber Singers (12)
 MUSC 245 Diction for Singers I (English & Italian) (2)
 MUSC 246 Diction for Singers II (French & German) (2)
 MUSC 327 Choral Conducting (3)
 MUSC 342 Vocal Pedagogy (3)
 MUSC 399 Junior Recital (1)
 MUSC 406 Survey of Solo Voice Literature (3)
 MUSC 499 Senior Recital (1)
 MUSC var Electives selected from upper-division literature or theory three-credit courses (9)

Intermediate level in German, or French, or Italian

Guitar Performance Concentration (52 credits)

- MUSA var Applied Private Guitar Lessons (16)
 MUSC var Ensemble: Eight semesters of Guitar Ensemble, four additional credits in any ensemble (12)
 MUSC xxx Guitar Pedagogy (3)
 MUSC 305 Introduction to the Music Industry (3)
 MUSC 327 Choral Conducting (3)
 OR
 MUSC 329 Instrumental Conducting (3)
 MUSC 399 Junior Recital (1)
 MUSC 409 History and Literature of Guitar, Lute and Vihuela (3)
 MUSC 499 Senior Recital (1)
 MUSC var Electives selected from upper-division literature or theory three-credit courses (10)

Pipe Organ Performance Concentration (52 credits)

- MUSA var Applied Private Pipe Organ Lessons (16)
 MUSA var Applied Private Piano Lessons (2)
 MUSC var Ensembles: Six semesters in choral ensembles, two in any other ensemble (8)
 MUSC 221 Voice Class I (1)

- MUSC 327 Choral Conducting (3)

OR

- MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 399 Junior Recital (1)
 MUSC 407 Tonal Counterpoint (3)
 MUSC xxx Organ Pedagogy (3)
 MUSC 410 Survey of Keyboard Literature (3)
 MUSC 499 Senior Recital (1)
 MUSC var Electives selected from upper-division literature or theory three-credit courses (8)

Piano Performance Concentration (55 credits)

- MUSA var Applied Private Piano Lessons (16); Additional Organ Lessons or Voice Lessons (2)
 MUSC var Ensemble: 6 semesters in Solo/ensemble Accompanying, 2 credits in any other ensemble (8)
 MUSC 311 Accompanying and Sight Reading I (3)
 MUSC 327 Choral Conducting (3)
 OR
 MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 378 Piano Pedagogy (3)
 MUSC 399 Junior Recital (1)
 MUSC 407 Tonal Counterpoint (3)
 MUSC 417 Keyboard Literature (3)
 MUSC 499 Senior Recital (1)
 MUSC var Electives selected from upper-division literature or theory three-credit courses (9)

Winds/Strings/Percussion Performance Concentration (52 credits)

- MUSA var Applied Private Lessons in one instrument or percussion area (16)
 MUSC var Ensembles: 8 semesters in either band or orchestra; 8 semesters of other instrumental ensembles chosen under the supervision of the ensemble directors and applied teachers (16)
 MUSC 305 Introduction to the Music Industry (3)
 MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 399 Junior Recital (1)
 MUSC 499 Senior Recital (1)
 MUSC var Electives selected from upper-division literature or theory three-credit courses (9)

Composition Concentration (52 credits)

- MUSA var Applied Private Lessons in a single medium (8)
 MUSC var Ensemble: 1 each semester (8)
 MUSC 135 Computer Applications (3)
 MUSC 221 Voice Class (1)
 MUSA 287 Composition Private Lesson (1)
 MUSA 288 Composition Private Lesson (1)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 327 Choral Conducting (3)
 or
 MUSC 329 Instrumental Conducting (3)
 MUSA 387 Composition Private Lesson (2)
 MUSA 388 Composition Private Lesson (2)
 MUSA 487 Composition Private Lesson (2)
 MUSA 488 Composition Private Lesson (2)
 MUSC 407 Tonal Counterpoint (3)
 MUSC 431 Advanced Arranging (3)
 MUSC 499 Recital (1)
 MUSC var Electives selected from upper-division literature or theory three-credit courses (9)

Music Literature Concentration (58 credits)

- MUSA var Applied Private Lessons in a single medium (8)
 MUSC var Ensemble: 1 each semester (8)
 MUSC 327 Choral Conducting (3)
 OR
 MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 402 Music of the Baroque Period (3)
 MUSC 403 Music of the Classical Period (3)
 MUSC 404 Music of the Romantic Period (3)
 MUSC 405 Contemporary Music (3)
 MUSC 407 Tonal Counterpoint (3)

- MUSC 493 Independent Research in Music Literature (3)
MUSC var Electives selected from upper-division literature or theory three-credit courses (6)
Intermediate level in any foreign language (12)

Jazz/Commercial Composition Concentration (52 credits)

- MUSA var Applied Private Lesson (8)
MUSC var Ensembles: 8 semesters in jazz ensemble
MUSC 135 Computer Applications (3)
MUSA 287 Composition Private Lesson (1)
MUSA 288 Composition Private Lesson (1)
MUSC 321 Jazz History (3)
MUSC 323 Jazz Theory (3)
MUSC 335 Choral and Instrumental Arranging (3)
MUSC 329 Instrumental Conducting (3)
MUSA 387 Composition Private Lesson (2)
MUSA 388 Composition Private Lesson (2)
MUSA 487 Composition Private Lesson (2)
MUSA 488 Composition Private Lesson (2)
MUSC 427 Jazz Arranging (3)
MUSC 429 Jazz Improvisation I (3)
MUSC 499 Senior Recital I
MUSC var Music Electives

Jazz/Commercial Performance Concentration (52 credits)

- MUSA var Applied Private Lesson (saxophone majors: 8 credits on sax and 8 credits on at least one woodwind double; bass majors, 8 credits on acoustic, 8 credits on electric; guitar majors, 8 credits on jazz/commercial, 8 credits on classical (16)
MUSC var Ensembles: 8 semesters of jazz, 8 credits of other instrumental ensembles chosen under the supervision of the ensemble directors and applied teachers (16)
MUSC 321 Jazz History (3)
MUSC 323 Jazz Theory (3)
MUSC 329 Instrumental Conducting (3)
MUSC 335 Choral and Instrumental Arranging (3)
MUSC 399 Junior Recital (1)
MUSC 429 Jazz Improvisation I (3)
MUSC 430 Jazz Improvisation II (3)
MUSC 499 Senior Recital (1)
MUSC var Music Electives (3)

MINOR IN MUSIC

A Music minor is available for those students who desire to pursue music studies as a secondary field. The minor in Music requires 24 credits in the following courses:

- MUSC 102 Introduction to Music of the Western Heritage: Analytic Emphasis (3)
MUSC 105 Elements of Music Theory (or a music major theory course based upon Theory Placement Test results)(3)
MUSC xxx Electives in lower-division courses selected after advisement with the music minor advisor (6)
MUSC xxx Electives an upper-division courses selected after advisement with the music minor advisor (12)

GENERAL EDUCATION REQUIREMENTS

The Music Department also offers courses designed for students who are non-music majors or minors. These courses are primarily taken to satisfy GenEd requirements.

TRANSFER CREDIT POLICY

Transfer of major credits is based upon an audition, a theory placement test and an interview with the department chair. At the minimum, students are required to complete 24 major credits at Towson.

GRADUATE PROGRAM

The department offers two graduate degrees: a Master of Music (Performance), a Master of Science (Education) and a certificate in Dalcroze-Orff-Kodaly. Entrance requirements and the programs of study are available from the department's graduate coordinators and in the graduate school Catalog.

Department of Theatre Arts

Professors: BAKER, C.R. GILLESPIE, LOESCHKE, MANLOVE
Associate Professors: BLASTING (*Acting Chair*), CASCELLA, ROCKWELL
Assistant Professor: BROWN, CASCIERO, HERZOG, ETtinger
Part-Time Faculty: ARNOULT, DOSTER, FOX, JAMES PENNIMAN, QUICK, SHUB

Distinguished Visiting Professor of Acting: JOHN GLOVER
Instructor: CASCIERO

OFFICE

Fine Arts Center, Room 356, (410) 830-2792, 830-2793.
FAX (410) 830-3914
Home Page: <http://www.towson.edu/theatre>

PROGRAMS OF THE DEPARTMENT

The Department of Theatre Arts offers the *major and minor in Theatre Arts*. Theatre majors must complete one of three areas of study: Acting, Design and Production, or General Theatre.

The curriculum in the department is designed to provide the best possible learning and training for the student wishing to major in Theatre Arts. The program is designed to provide, in cooperation with other departments, a broad liberal education as well as specialized professional training in which emphasis is placed on skills as well as knowledge. The main emphasis is the creation of an artistic point of view within the student.

The major in Theatre Arts is time consuming and physically demanding. Participation in Mainstage and Studio productions is part of the educational program. All Theatre majors and minors are required to participate in crew work for productions. Majors must be free to participate in theatre activities on weekends and during the evening.

TRANSFER CREDIT POLICY

Students transferring from other institutions and planning to major in Theatre Arts at Towson are required to complete a minimum of 20 hours of theatre arts courses at Towson. Transfer of credits towards the Theatre Arts major will be determined by the chair. Transfer students should schedule an interview with the chair at the first opportunity.

MAJOR IN THEATRE ARTS

Theatre Arts majors must complete 45 credit hours in theatre, at least 18 of which must be at the 300-400 level. The major program consists of 30 credits of required courses and a minimum of 15 elective credits in theatre selected from one of the three areas of study. The Pass/D/F option is not available for courses applied to the major. Students are expected to take any lower-division prerequisites before attempting the required upper-division electives.

Requirements for All Majors

Theatre courses (30 credits)

- THEA 101 Acting I (3)
THEA 125 Script Analysis (3)
THEA 142 Introduction to Theatre Design (3)

THEA 211 History of Theatre & Drama I (3)
THEA 212 History of Theatre & Drama II (3)
THEA 213 History of Theatre & Drama III (3)
THEA 241 Costume, Dress and Society (3)
OR
THEA 242 Costume Dress and Society (3)
OR
THEA 353 Costume Design I (3)
THEA 331 Directing I (3)
THEA 491 Theatre Production (3)
THEA 499 Special Project in Theatre Research (3)

AREAS OF STUDY

There are three areas of study in the Theatre Arts Department. Majors must choose an area and work with a faculty advisor to select courses. In addition to the 30 required credits, the student must take the remaining 15 credits in a single area.

AREA I**Acting Area**

The Acting Area has two parts: The Acting Track and the Acting Enrichment Courses.

Acting Track*

The following is the acting track for those students who are seeking professional theatre training. Not all theatre majors in the Acting Area will complete the Acting Track. This track is for those students demonstrating outstanding performance in the progression of classes. Students must have faculty permission to progress through the Acting Track. Students in the Acting Area may graduate as Theatre Majors without completing the Acting Track by completing the numerous other performance courses available.

Level One	THEA 101	Acting I (3)
	THEA 105	Drill in Movement (3)
	THEA 111	Drill in Voice (3)
Level Two	THEA 202	Acting II (3)
	THEA 308	Voice and Movement Integration (3)
Level Three	THEA 309	Acting III (6)
Level Four	THEA 312	Acting IV: Shakespeare (3)
	THEA 4XX	Auditioning (3)
Level Five	THEA 315	Advanced Scene Study (3)
	THEA 425	Advanced Study in Acting Style (1-9)
	THEA 487	Professional Theatre Seminar (1-12)
	THEA 489	Senior Acting Seminar (3)
	THEA 493	Advanced Study in Theatre (1-9)

*Students need faculty permission to progress to next level. Students may be asked to repeat courses or take Acting Enrichment courses in order to progress in the Acting Track.

Acting Enrichment Courses

Students may take any of the following with the appropriate prerequisite:

THEA 205	Theatre Games (3)
THEA 231	Mime & Physical Theatre Techniques (3)
THEA 245	Makeup Design I (3)
THEA 246	Makeup Design II (3)
THEA 261	Acting for Musical Theatre I (3)
THEA 301	Techniques of Comedy (3)
THEA 305	Feminist Theatre (3)
THEA 307	Theories of Theatre (3)
THEA 332	Mime & Physical Theatre Styles (3)
THEA 335	Movement Theatre Improvisation (3)
THEA 405	Acting & Writing for Feminist Theatre (3)
THEA 423	Advanced Study in Movement Theatre (1-9)

Movement Theatre

There are opportunities for majors to explore Movement Theatre in depth by taking several unique courses and by participating in Movement Theatre productions. The following courses are offered on a rotating basis. Students interested in Movement Theatre are encouraged to take the following courses:

THEA 105	Movement Drill for the Actor (3)
THEA 111	Voice Drill for the Actor (3)
THEA 202	Acting II (3)
THEA 231	Mime and Physical Theatre Techniques (3)
THEA 332	Mime and Physical Theatre Styles (3)
THEA 335	Movement Theatre Improvisation (3)
THEA 423	Advanced Study in Movement Theatre (1-9)

Selections from:

DANC 101	Alexander Technique (3)
DANC 107	Beginning Modern Dance I (2)
DANC 109	Jazz Dance I (2)
DANC 111	Tap I (2)

AREA II**Design and Production Area**

The Design and Production area had two parts: a track of required courses and a group of enrichment courses.

Required Courses:

Must take all of the following:

THEA 201	Scenic Design I (3)
THEA 251	Stagecraft I (3)
THEA 255	Lighting Design I (3)

Must take one of the following:

THEA 241	Costume Dress and Society: Egyptian to Elizabethan (3)
THEA 242	Costume Dress and Society: Elizabethan to 1950
THEA 353	Costume Design I (3)

Must take one of the following:

THEA 351	Stagecraft II (3)
THEA 355	Lighting Design II (3)
THEA 361	Scenic Design II (3)
THEA 453	Costume Design II (3)

Enrichment Courses:

THEA 107	Property Design and Construction
THEA 206	Theatre Rendering
THEA 209	Sound Design
THEA 245	Makeup Design I
THEA 246	Makeup Design II
THEA 257	Stage Management
THEA 351	Stagecraft II
THEA 355	Lighting Design II
THEA 361	Scenic Design II
THEA 433	Advanced Study in Stage Management (1-9)
THEA 443	Structural Design and Safety
THEA 445	Scene Painting
THEA 453	Costume Design II
THEA 463	Period Styles for Design
THEA 480	Advanced Study in Theatre Design (1-9)
THEA 487	Professional Theatre Seminar (1-12)
THEA 493	Advanced Study in Theatre (1-9)

AREA III**General Theatre Area**

The General Theatre Track serves two types of theatre majors: 1) those who wish to design their own programs of study within the department and 2) those who wish to specialize in areas of theatre studies which are not yet fully developed in the department (Stage Management, Directing, and Theatre Arts Administration). In addition to the standard requirements for all Theatre Arts majors, students in the General Theatre Track will select at least 15 elective credits as described for the various areas of focus listed below, with the supervision of a theatre faculty advisor.

Additional Opportunities

The Theatre Department offers several opportunities for experience and mentoring in areas that do not have fully developed curriculum. In addition to Movement Theatre (see Acting Area), these opportunities include Directing, Stage Managing, Theatre Administration, and Musical Theatre.

Directing

Students who have successfully completed Directing I may propose to direct a Studio Project. There are several levels of increasing support and responsibility to which student directors may progress if their work is consistently excellent.

Stage Managing

Students interested in Stage Managing have an excellent opportunity to stage manage Studio and then Mainstage productions. Student stage managers may have opportunity to work with several of the directors on the faculty and with professional guest artist directors. The stage managing course is offered every three semesters.

Theatre Administration

Students interested in Box Office, House Managing, Publicity, and other aspects of Theatre Administration have opportunity to gain work experience through internships and paid positions with the department. Students with this interest often take a Business Minor. There are no courses in Theatre Administration in the department.

Musical Theatre

Students interested in Musical Theatre have opportunity to perform with The Maryland Arts Festival in summers. The department produces a Mainstage musical once every two years. These students may take private voice lessons with the Music Department and dance classes with the Dance Department. Acting for Musical Theatre is offered once a year. There are additional small opera performance opportunities in the Music Department.

MINOR IN THEATRE ARTS

The Theatre Arts minor is required to take 27 credit hours in theatre. The Pass/D/F option is not available for courses applied to the minor. At least 12 of these hours must be at the upper-division level. The student is required to take one acting course and one course in the Design and Production area. The student must successfully complete three non-credit supervised production experiences. The student is encouraged to pursue an area of study within one of the department's areas (Acting, Design and Production, or General) under the supervision of an advisor.

MEETING GENERAL EDUCATION REQUIREMENTS

The Theatre Arts Department offers courses that are designed for students who are non-theatre majors or minors. These courses are primarily taken to satisfy GenEd requirements. Please see the General Education (Curriculum) section of this Catalog.

CAREER OPPORTUNITIES

Career opportunities in theatre include professional acting; directing; technical theatre; costume, make-up, light and set design; stage managing; theatre management; and movement theatre. Students preparing to teach drama in high school must carry a secondary education major, but may consider carrying a theatre major as well. Students interested in musical theatre may consider carrying a major in theatre, taking several dance courses and studying private voice every semester. Theatre alumni have also found careers in related areas such as clothing design, computer design, casting agencies, business management, personnel work, promotional agencies, film and television. Many of our graduates go on to graduate school in theatre either in preparation for professional theatre careers or college teaching.

A limited number of scholarships are available for continuing students including the Charles Dutton Scholarship and the John Glover scholarship.

GRADUATE PROGRAM

Master of Fine Arts in Theatre

The Master of Fine Arts in Theatre at Towson State University is an experimental, self-directed graduate program designed to challenge, expand and develop the participant's artistic vision. Focusing on original solo and ensemble work, it aims to reconstruct a theatre suited to the challenges of the 21st century. Our curriculum includes residencies and workshops by nationally and internationally recognized guest artists and encourages its students to collaborate on interdisciplinary and cross-cultural projects. For more information see the TSU Graduate Catalog, or contact Juanita Rockwell at (410) 830-3851.







The College of Health Professions

Each of the programs in the College provides students with a rigorous grounding in the liberal arts and sciences, which is essential as a foundation for specialized study. Students are prepared to assume roles in a variety of clinical, teaching, and community settings.

Society places great value on health. The College accepts as its philosophical foundation the belief in the worth and dignity of individuals and their right to fulfill their potential in life. Preservation or restoration of the individual's dignity through health then becomes the basic tenet of the programs of the College. The programs promote the attainment of the highest level of wellness possible in the patients and clients that are served. Graduates of the College are committed to service to the public in maintaining wellness and to those whose well-being is threatened or altered by illness, injury, or natural processes.

Programs in the College are accredited by appropriate professional and educational accrediting agencies. Graduates of the baccalaureate programs of Nursing and Occupational Therapy are eligible to sit for their respective certification or licensure examinations. In addition to providing courses for students majoring in each of the departments, a broad range of classes is available to all students in the university

*Stephen N. Collier, Dean
J. Ellen Eason, Associate Dean*

COLLEGE OFFICE
Towson Center
Room 337
(410) 830-2132

Department of Communication Sciences and Disorders

Professors: GLADSTONE, REITZEL

Associate Professors: GHITTER, LAUFER (Chair), RIES

Assistant Professors: BASSICH, COOPER, EMANUEL, HESTER

Visiting Faculty: HAAG, PALLETT

OFFICE

Van Bokkelen, Room 105, (410) 830-3099

PROGRAMS OF THE DEPARTMENT

Communication Sciences and Disorders offers a *major in Speech-Language Pathology and Audiology*. This pre-professional major is broadly based in liberal arts and sciences with emphasis on information gathering, observation, and the ability to evaluate information sources. At the undergraduate level the program emphasizes information on the development and normal processes of communication as well as communication disorders.

The undergraduate major in Speech-Language Pathology and Audiology prepares students for graduate study. The *Master of Science degree program in Speech-Language Pathology and Audiology* focuses on specific communication disorders, their diagnosis and treatment. The graduate program prepares students for national/state certification and state licensure, for clinical work in public and private schools, colleges, and medical/paramedical institutions, and to pursue advanced degrees in the profession. For more information about the graduate program, see the *Graduate Catalog*.

PRE-MAJOR REQUIREMENTS

Enrollment in the Speech-Language Pathology and Audiology major is restricted as a function of the availability of clinical internship experiences, clinical supervisors, faculty and space. Each student must fulfill pre-major requirements before being considered for admission to the major. These requirements include declaration of major in the department as a pre-major, completion of the five required pre-major courses, and a speech, language, hearing and voice screening.

Registration with the Department

After gaining admission to the university, students are advised to contact the Department of Communication Sciences and Disorders during their first semester in order to be assigned an academic advisor to discuss the following:

1. The procedures for requesting admission to the major.
2. The nature of the profession.
3. The requirement of a Master's degree in Speech-Language Pathology or Audiology for
 - certification by the Maryland State Department of Education
 - licensure to work in hospitals and other clinics in the State of Maryland
 - certification by the American Speech-Language Hearing Association
4. The requirement of a clinical fellowship year.
5. The national certification examination.

Students are advised to declare a major in this area as soon as possible.

Pre-Major Courses

The following required courses must be completed before the student can be considered for admission to the major.

SPPA 105	Speech and Language Development (3)
SPPA 210	Phonetics of American English (3)
PSYC 101	Introduction to Psychology (or equivalent) (3)

Natural Lab Science (4)*

Social/Behavior Science (3)**

The grade point average of each pre-major will be reviewed upon completion of the pre-major courses. Each candidate must have a minimum cumulative grade point average of 2.50 on a 4.00 scale for all course work, and a 2.8 in the five pre-major courses to be eligible for credentials evaluation. All eligible pre-majors are ranked by average of overall and pre-major QPA at the end of the spring semester; a maximum of 50 are selected for fall admission to major status. Evaluation of credentials for advancement to major status occurs after spring semester grades are posted and students are notified of status by certified mail no later than June 15. Once admitted to major status the program will require a minimum of four semesters to complete.

The department maintains these high standards because students must obtain a master's degree to practice Speech-Language Pathology or Audiology, and admission to graduate school is primarily dependent on academic excellence in undergraduate coursework.

*i.e., BIOL 110 or 201; PHYS 211; CHEM 101 or 105

**i.e., SOCI 101; ANTH 207, 208, 209; PSYC 201, 203, 205, 211, or 230; GEOG 109; ECED 101, or EDUC 201

Speech, Language, Hearing and Voice Screening

Students majoring in Speech-Language Pathology and Audiology are expected to demonstrate proficiency in all areas of communication (reading, writing, oral communication) and in computational abilities. Students must have a hearing, language, speech and voice screening by clinically certified and licensed staff of the TU Speech-Language-Hearing Clinic. Students must arrange to be screened during their first semester in the program. These screenings are offered by the department on specific, announced days during the first weeks of each semester. Students exhibiting a communication disorder or a dialect of English which is not easily understood will be encouraged to seek treatment/training. It is expected that such students will show improved oral communication ability prior to enrolling in their first clinical internship course. If a pertinent medically-based problem is suspected, a student may be required to obtain an otolaryngological examination and submit the written report to the department. Each student is given a copy of the department's screening policy upon declaration of pre-major.

TRANSFER STUDENT POLICIES

Transfer students who wish to major in Speech-Language Pathology and Audiology must register with the Department of Communication Sciences and Disorders after they have been admitted to the university. Students should arrange for their speech-language-hearing and voice screening during their first semester at Towson.

Students must submit to the Department an official transcript of any academic work pursued at all institutions of higher learning. All transfer credits to be applied to the major must be approved by the department. SPPA 210: Phonetics must have been completed within the previous ten years and all five pre-major courses must have been completed by the time of admission to the major.

Transfer students are required to take 20 hours in residence in their major area.

PREREQUISITE/SECOND BACHELOR'S PROGRAM

Admission to the Department of Communication Sciences and Disorders graduate programs in either Speech-Language Pathology or Audiology for those without an undergraduate degree in Speech-Language Pathology or Audiology, requires matriculation in either a 30-credit non-degree/prerequisite program or a 49-credit Second Bachelor's degree program. The non-degree program is specific to application to our graduate program, whereas the Second Bachelor's degree program prepares students for application to any graduate program. Candidates for either option should contact the Office for Non-Traditional Undergraduate Programs at (410) 830-2371. In

order to register for classes you must first be officially admitted to the University, and then officially declare your major with the department. *Failure to begin during a fall semester will extend your program.* Coursework cannot be completed in one year; only a limited number of students are selected from those that have applied by March 15 each year.

MAJOR IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

In addition to the GenEds, Speech-Language Pathology and Audiology majors must complete 45 credits in required speech-language pathology and audiology courses. In order to remain in, continue in and graduate from the Speech-Language Pathology and Audiology major, students are required to earn a grade of "C" (2.00) or better in all required pre-major and major courses, in addition to attaining the overall cumulative grade point average required by the university. However, a master's degree is the entry certificate for the professions, and most graduate programs generally require a minimum QPA of 3.0 for admission consideration. The Pass/D/F option may not be applied to any SPPA and or required major course.

Pre-Major Sequence (16 credits required)

SPPA 105 Speech and Language Development (3)
SPPA 210 Phonetics of American English (3)
PSYC 101 Introduction to Psychology (3)
Natural Lab Science (4)
Social/Behavior Science (3)

Major (43 credits required)

SPPA 200 Anatomy & Physiology of the Auditory & Vocal Mechanism (3)
SPPA 205 Basic Sign Language (3)
SSPA 303 Hearing Science (3)
SPPA 313 Language and Speech Science (3)
SPPA 302 Speech & Language Pathology I: Phonology (3)
SPPA 304 Speech & Language Pathology II: Language (3)
SPPA 321 Introduction to Audiology (3)
SPPA 325 Introduction to Aural Rehabilitation (3)
SPPA 416 Clinical Observations and Techniques (3)
SSPA 417 Technical Writing in Clinical Processes (3)
SSPA 487 Clinical Internship (3)
PSYC 212 Behavioral Statistics (4)

Electives (6 of the 43 required; only 3 credits of special format courses SPPA 496-498 may be applied to requirement)

SSPA 206 ASL I(3)
SPPA 306 Speech & Language Pathology III: Organic Disorders (3)
SPPA 341 Clinical Audiology (3)
SSPA 345 Psychosocial Aspects of Deafness (3)
SPPA 496 Independent Study in Speech-Language Pathology and Audiology (1-4)
SPPA 498 Proctoring in Speech-Language Pathology and Audiology (3)

STUDENT ACTIVITIES

Students are encouraged to participate in the campus chapter of the National Student Speech-Language Hearing Association. In addition, Sign Up (Sign Language Club) welcomes student participation.

Department of Health Science

Professors: COLLIER, COOK-FULLER, ENSOR, GALLAGHER (*Acting Chair*), J. McMAHON, M.J. McMAHON, OSMAN, RADIUS, SHEETS, WENGERT

Associate Professors: ALT, CARTER

Assistant Professors: AGLEY, BUCHBINDER, COX

OFFICE

Burdick Hall, Room 141, (410) 830-2388

PROGRAMS OF THE DEPARTMENT

The field of Health Science bridges the gap between scientific discoveries and the application of this knowledge to improve the quality of life.

The department offers a major in Health Science and a Pre-Medical Technology program. Within Health Science, students may opt among school health education, school/community health education, community health education and health services management.

MAJOR IN HEALTH SCIENCE

Health Science majors should contact the department chair to receive information concerning the programs and to be assigned an advisor. All students must meet with their advisor each semester.

In addition to completing major requirements, students must complete the GenEd requirements. A minimum quality point average of C(2.00) is necessary for all required courses.

TRANSFER STUDENT POLICY

A minimum of 30 hours must be completed at TU.

Requirements for the School and Community Concentrations in the Major

Health Education is both a science and an art that deals with the complexities of human behavior with the expressed purpose of promoting healthy behaviors. In order to develop the competencies necessary to be an effective health educator, students need a foundation built on principles derived from behavioral, biomedical and social sciences as well as education. The expertise common to all health education specialists, regardless of the setting in which they practice, is the ability to apply teaching/learning principles to health/illness issues.

In the junior year of this major, students must decide if they want to participate in a community health internship or a student teaching experience. Students selecting the student teaching experience will receive certification to teach K through 12. The students who select the teacher education program in Health Education which include admission to professional education program and to student teaching. Transfer students should plan to take additional semesters of study.

Curriculum and Planning (HLTH 315) fulfills GenEd I.D. advanced level writing course requirement.

GenEd requirements include ENGL 102, BIOL 110, SOCI 101, PSYC 101, CHEM 100 or 105, HLTH 101, and HLTH 315.

The following are the courses and recommended sequence for health science majors in school health, community health, and school and community health concentrations.

Freshman Year

First semester - 16 credits

HLTH 101 Wellness for a Diverse Society (3)
BIOL 110 Cont. General Biology (4)
PSYC 101 General Psychology (3)
SOCI 101 Intro. to Sociology (3)
ENGL 102 Writing for a Liberal Education (3)

Second Semester - 17 credits

- CHEM 105 Chemistry for Allied Health Prof. (4)
 COMM 131 Fund. of Speech Communication (3)
 PHEA Physical Education Elective (1)
 Non-Western Culture Course (3) GenEd II.D.
 GenEd I.B (3)
 GenEd (not HIST) II.C.1 (3)

Sophomore Year**First Semester - 16 credits**

- BIOL 213 Human Anatomy & Physiology I (4)
 HLTH 103 Emergency Medical Care (3)
 HLTH 210 Foundations of Health & Health Behavior I (3)
 HLTH 207 Health Care in U.S. (3)
 GenEd I.C. (3)

Second Semester - 16 credits

- BIOL 214 Human Anatomy & Physiology II (4)
 HLTH 215 Foundations of Health & Health Behavior II (3)
 PSYC 201 Educational Psychology (3)
 HIST 145 History of the U.S. to Mid 19th Century (3)
 or
 HIST 146 History of the U.S. since Mid 19th Century (3)
 HIST 145 or HIST 146 can be used to fulfill GenEd II.B.1
 GenEdII.C3 (3)

Junior Year**First Semester - 15 credits**

- HLTH 204 Nutrition/Wt. Control for Consumer (3)
 HLTH 208 Mental Health/Stress Mgt/Crisis Interv. (3)
 HLTH 315 Curriculum and Planning in Health Educ. (3)
 GenEd I.E. (3)
 Elective (3)

The following three semesters are listed according to concentration selected by the student. Selection of the concentration must be declared with the department chairperson before the second semester, junior year.

Junior Year - School Health Education and Dual Concentrations**Second Semester - 15 credits**

- HLTH 425 Instructional Methods in Health Educ. (3)
 HLTH 401 Teaching About Drugs and Sex (3)
 HLTH 435 Epidemiological Basis for Diseases (3)
 SCED 460 Teaching Reading in Second. School (3)
 SCED 341 Principles of Second. Educ. (3)

Junior Year - Community Health**Second Semester - 15 credits**

- HLTH 425 Instructional Methods in Health Educ. (3)
 HLTH 401 Teaching About Drugs and Sex (3)
 HLTH 435 Epidemiological Basis for Diseases (3)
 HLTH Elective (3)
 HLTH Elective (3)

Senior Year - School Health Education and Dual Concentrations**First Semester - 14 credits**

- HLTH 432 Measurement and Evaluation in Health Educ. (3)
 HLTH 426 Methods in Elem. School Health (2)
 EDUC 401 Foundations of Education (3)
 SPED 301 Intro. to Special Education (3)
 HLTH 430 Organ. Implementation/Mgt. of Health Programs (3)

Senior Year - Community Health**First Semester - 15 credits**

- HLTH 432 Measurement and Evaluation in Health Educ. (3)
 EDUC 401 Foundation of Education (3)

- HLTH 430 Organ. Implementation/Mgt. of Health Programs (3)
 HLTH Elective (3)
 HLTH Elective (3)

Senior Year - Dual Concentration**Second Semester - 12 credits**

- HLTH 387 Student Teaching in Secondary Educ. (6)
 HLTH 421 Field Work in Community Health

Senior Year - Community Health**Second Semester - 12 credits**

- HLTH 422 Field Work in Community Health (12)

Requirements for Health Care Management Concentration in the Major

The Health Services Management concentration in Health Science is designed to provide students with a basic understanding of both the business and health fields. Students are prepared to assume management careers in health-related fields, i.e., administrative assistants, health planners or entry-level management personnel. It is highly recommended that students selecting this concentration should consider the possibility of having a dual major-Business Administration. Depending on the student's interests and the availability of positions, graduate training in health administration is highly desirable after completing this program.

Required Prerequisites (21 credits)

- ACCT 201 Accounting Principles I (3)
 ACCT 202 Accounting Principles II (3)
 ECON 201 Microeconomic Principles (3)
 ECON 202 Macroeconomic Principles (3)
 HLTH 101 Current Health Problems (3)
 MATH 237 Elementary Biostatistics (3)* See following note.
 SOCI 101 Introduction to Sociology (3)

Required Courses**Health Science (12 credits)**

- HLTH 207 Health Care in the U.S. (3)
 HLTH 210 Foundations of Health Education and Health Behavior I (3)
 HLTH 311 Chronic & Communicable Disease (3)
 HLTH xxx Upper-Division Health Elective (3)

Health Services Management Core (12 credits)

- BULA 225 Legal Environment of Business (3)
 FIN 331 Financial Management (3)
 MNGT 361 Management and Organization Theory (3)
 MKTG 341 Principles of Marketing (3)

Interdepartmental Courses (15-16 credits)

- COSC 111 Information and Technology for Business (3)
 ECON 339 Economics of Health (3)
 ENGL 317 Writing for Business and Industry (3)
 SOCI xxx Upper Division Sociology Elective (3)
 _____ Laboratory Science Elective (3,4)

Students must also complete 15-21 credits of upper division electives (300-400 level)

*Students who are majoring in the School of Business and Economics and in Health Services Management should take Math 231 Basic Statistics I (3).

Honorary Society

Eta Sigma Gamma, the national professional honorary society in Health Education, has established the Beta Zeta Chapter in the Department of Health Science. The purpose of the organization is to

elevate standards, ideals, and ethics of the profession. For information concerning Beta Zeta, contact the Chair of Health Science (410) 830-2378.

Health Science Recognition Award

This award is presented in the spring commencement ceremony to outstanding undergraduate Health Science Majors.

Graduate Program

The Department of Health Science offers a Master of Science degree with concentrations in Health Administration, Community Health Education, & School Health Education. For more information see the *Graduate Catalog*.

PROGRAM IN PRE-MEDICAL TECHNOLOGY

Chair, Health Science, Coordinator, Burdick Hall

A career in medical technology can be both stimulating and rewarding since the field is rapidly growing with advances in medical science. The medical technologist works under the supervision of a pathologist in a laboratory and performs tests on which doctors rely for assistance in diagnosing or treating diseases.

Towson University's Pre-Medical Technology Program provides the liberal arts and science basis for continuation of the degree program at the University of Maryland at Baltimore (UMAB) or Salisbury State University. Pre-Medical Technology majors are required to complete the general education requirements before transferring to another senior institution.

Students who intend to transfer to UMAB to complete the B.S. degree in Medical Technology must complete the following during their first two years at Towson.

Biology:	BIOL 110 BIOL 213 BIOL 214 BIOL 315	General Contemporary Biology Anatomy and Physiology I Anatomy and Physiology II Medical Microbiology
Chemistry:	CHEM 101 CHEM 102 CHEM 330	General Chemistry I General Chemistry II Organic Chemistry
Mathematics:	MATH 111 MATH 237	Algebra for Applications Elementary Biostatistics
Computer Science:	COSC 165	Fundamentals of Computing
English:	ENGL 102	Composition English Elective

Humanities Electives (3 semester hours)

Select courses from history, literature, philosophy, art, music. In addition, credit for foreign language will be given only upon completion of either the first elementary year or an advanced course.

Behavior & Social Science Electives (6 semester hours)

Select courses from economics, political science, urban studies, sociology, geography, anthropology, Afro-American studies, or psychology.

Electives (8 semester hours)

CHEM 331
PHYSICS 100 or 102
BIOL 401

Students should make application to UMAB upon completing 45 semester hours. See Pre-Medical Technology Program Coordinator for application information.

Students who intend to transfer to Salisbury State University to complete the B.S. degree in Medical Technology must complete the following during their first two years at Towson.

Biology:	BIOL 110 BIOL 213 BIOL 214 BIOL 315	General Contemporary Biology Anatomy and Physiology I Anatomy and Physiology II Medical Microbiology
Chemistry:	CHEM 101 CHEM 102 CHEM 331	General Chemistry I General Chemistry II Organic Chemistry I
Mathematics:	MATH 111	Algebra for Application MATH 237 Elementary Biostatistics
English:	ENGL 102	Writing for a Liberal Education English Literature (2 courses)

Arts/Humanities (6 semester hours)

Select two courses from different departments in Art, Communication Art, Music, Philosophy, or Language.

History Electives (6 semester hours)

HIST 101 Intro. to Ancient Civilization
HIST 151 The World Since 1945

Behavior & Social Science Electives (9 semester hours)

Select courses from three different departments in economics, political science, human geography, sociology, physiology and anthropology.

Kinesiology (3 semester hours)

KNES 235 Individualized Fitness

Students should make application to Salisbury State upon completing 45 semester hours. See Pre-Medical Technology Program Coordinator for application information.

Department of Kinesiology

Professors: BLANN, BOUCHER, EASON, STINAR (*Chair*)

Associate Professors: BRITT, FAULKNER, FORBES,

KENNARD, McDONALD, RIORDON, SLEVIN

Assistant Professors: ALBERT, ANGOTTI, RUNK, ZANG

Visiting Assistant Professor: SMITH

Instructors: PARR, WALTER

Adjunct Faculty: BADDERS, BALKE, DI GIACINTO, DUCKWORTH, HORSMAN, O'BRIEN, MC INTYRE, TRUITT, WORTHINGTON

OFFICE

Towson Center, Room 200, (410) 830-2376

The Department of Kinesiology offers four academic major, namely Physical Education Teacher Education, Athletic Training, Sport Management and Sport Studies. The Sport Studies major provides concentrations in Psychology of Sport and Sport Communication.

In addition, the Department of Kinesiology offers KNES 235 Individualized Fitness, as an approved course for GenEd II.B.3 - American Experience: Contemporary Studies. The Department of Kinesiology also offers a series of two-credit activity courses. These courses emphasize a conceptual approach through the development of skills, knowledge, and fitness necessary to lead an active life.

Some of the courses offered in this series are as follows:

PHEA 205	Self Defense, Protection & Personal Safety
PHEA 207	Rhythmic Aerobics
PHEA 209	Ballroom Dance
PHEA 211	Cardiovascular Movement: Jogging, Cycling and In-Line Skating
PHEA 215	Recreational Sports: Bowling, Billiards and Golf
PHEA 217	Invasion Sports: Basketball, Lacrosse and Soccer
PHEA 221	Net Games: Badminton, Tennis, and Volleyball
PHEA 223	Wall Games: Handball, Racquetball, and Squash

MAJOR IN PHYSICAL EDUCATION: TEACHER EDUCATION

Towson University's Teacher Education program prepares competent teachers in Physical Education for elementary and secondary schools. Graduates are certified to teach at the elementary and secondary levels. A planned sequence of courses is designed to provide the student with skills and leadership experience needed to direct a balanced program in class, intramural and extramural activities.

Students majoring in Physical Education Teacher Education must complete 27 credits in required professional theory courses, 12 credits of courses in required professional laboratory skill courses, and 12 credits of elective courses in Kinesiology. Additionally, the student must complete 48-49 credits in courses required by the State Department of Education for teacher certification. Students must complete all required and prerequisite courses for the major with a grade of "C" or higher. In addition, the following professional education courses must be completed with a grade of "C" or higher and a cumulative QPA of 2.75: Educational Psychology, PSYC 201; Survey of Educational Programs, SCED 319; Teaching PE in Elementary School, KNES 324; Teaching PE in Secondary School, KNES 325; Foundations of Education, EDUC 401; Adaptive Physical Education, KNES 423.

An emphasis area in Health Science is available for students who wish to be certified to teach in physical education and health education at the elementary and secondary levels. In addition, a double major in teacher education and athletic training is available.

Requirements for the Major

Professional Theory Courses (27 credits)

KNES 298	History and Philosophy of Physical Education (3)
KNES 303	Organization & Administration of Ph. Ed. (3)

KNES 309	Tests & Measurements in Physical Ed. (3)
KNES 311	Biomechanics (3)
KNES 315	Care & Prevention of Athletic Injuries (3)
KNES 324	Teaching Physical Education in Elementary School (3)
KNES 325	Teaching Physical Education in Secondary School (3)
KNES 423	Adaptive Physical Education (3)

Professional Laboratory Skills (12 credits)

Professional laboratory skill courses (KNES 111-284) provide instruction in the basic activities appropriate for a teacher of physical education, including acquisition of skills and methods of instruction. Specific courses are required in the following categories:

- Team Sports -- six courses
- Individual/dual activities -- six courses
- Aquatics -- 1 credit
- Dance -- two courses
- Elementary Activities -- two courses

Course outlines and prerequisites are available in the Department of Kinesiology office.

A partial list of required (*) and elective professional laboratory skill courses follows:

KNES 111	Archery I (0.5)
*KNES 113	Badminton I (0.5)
*KNES 203	Basketball I (0.5)
KNES 115	Bicycle Touring (0.5)
KNES 119	Bowling I (0.5)
KNES 125	Fencing I (0.5)
*KNES 207	Field Hockey I (0.5)
KNES 127	Golf I (0.5)
*KNES 156	Gymnastics I (1.0)
*KNES 215	Lacrosse I (0.5)
*KNES 221	Soccer I (0.5)
*KNES183	Ballroom Dance, Folk & Square (1.0)
*KNES 223	Softball I (0.5)
*KNES165	Basic Swimming (1)
*KNES 179	Tennis I (0.5)
*KNES 149	Track & Field I (0.5)
*KNES 228	Volleyball I (0.5)
*KNES 151	Wrestling (0.5)
*KNES 239	Physical Fitness Activities
*KNES 279	Techniques of Teaching Creative Movement (1.0)
*KNES 283	Physical Education Activities for the Young Child (K-3) (1.0)
*KNES 284	Physical Education Activities for the Intermediate Grades (4-6) (1.0)

Electives (12 credits)

Twelve credits in Kinesiology theory and professional laboratory skills courses from the remaining courses available in the department are required.

Required Teacher Education Certification Courses (48-49 credits)

COMM 13	Fundamentals of Speech Communication (3)
BIOL 110	Contemporary General Biology (4)
PHYS 201	General Physics B (5)
<i>Or</i>	
CHEM 105	Chemistry for Allied Health Professions I (4)
HLTH 101	Wellness in a Diverse Society (3)
PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)
BIOL 213	Human Anatomy & Physiology I (4)
BIOL 214	Human Anatomy & Physiology II (4)
SCED 319	Survey of Education (3)
EDUC 401	Foundations of Education (3)
KNES 392	Elementary Student Teaching (7)
KNES 394	Secondary Student Teaching (7)

Health Education Certification

In addition to the requirements for Physical Education: Teacher Education, the following sequence of courses is recommended for those who want to attain Grades 5-12 School Health Education Certification via the Credit Count method.

Required Courses (27 credits)

HLTH 103	Emergency Medical Care, First Aid & Safety (3)
HLTH 210	Foundations of Health Behavior I (3)
HLTH 208	Mental Health, Stress & Crisis Intervention (3)
HLTH 311	Chronic & Communicable Disease (3)
HLTH 325	Instructional Methods in Health Education (3)
HLTH 331	Nutrition for Health Professionals (3)
HLTH 401	Teaching Drugs and Sex (3)
HLTH 405	Drugs In Our Culture (3)
SCED 399	Differentiated Student Teaching -- Secondary (Health) (3)

Students are advised that the Department of Health Science is responsible for establishing the health-education requirements for this program. As such, students interested in pursuing this option must contact the Chair of Health Science for additional and current information.

MAJOR: ATHLETIC TRAINING

The program of study in Athletic Training is designed to provide a liberal education and develop professional competence. The course of study addresses prevention, assessment, management, and rehabilitation of athletic injuries/illnesses. In addition, professional preparation of students in the administrative, educational, and counseling aspects of athletic training is also included.

Athletic Training Education Program

Students interested in pursuing professional certification as an athletic trainer should make application to the Athletic Training Education Program (ATEP). The ATEP is accredited by the National Athletic Trainers Association, Inc. Satisfactory completion of the program qualifies the student as a candidate for the national certification examination administered by the National Athletic Trainers Association Board of Certification.

Program requirements include completion of the academic major in athletic training as well as completion of a clinical experience. The clinical experience allows the student to put classroom/theoretical concepts into practice by assisting with the day-to-day care of Towson University student-athletes. While under the supervision of a certified athletic trainer, the student will be given the opportunity to work with "high risk" and non-contact sports as well as both men's and women's teams. The clinical experience takes place over a four-year period.

Admission to the ATEP:

The Athletic Training Education Program is a screened program. In order to receive a program application, students must attend an orientation session. The purpose of the orientation session is to explain the application process, the program requirements, and the NATA certification process. The application process can be initiated prior to formal admission to the University. Admission to the University does not guarantee admission to the ATEP.

Required Courses

KNES 235	Individualized Fitness (3)
KNES 309	Tests and Measurements (3)
KNES 311	Biomechanics(3)
KNES 313	Physiology of Exercise (3)
KNES 315	Care & Prevention of Athletic Injuries (3)
KNES 355	Principles & Techniques of Taping & Wrapping (1)
KNES 415	Advanced Care & Prevention of Athletic Injuries (3)
KNES 417	Organization and Administration of Athletic Training (3)
KNES 428	Therapeutic Techniques in Athletic Training (3)
KNES 429	Physical Assessment in Athletic Training (3)
KNES 431	Seminar in Athletic Training (2)
BIOL 110	Contemporary General Biology (4)
BIOL 213	Anatomy & Physiology I (4)
BIOL 214	Anatomy & Physiology II (4)
PHYS 201	General Physics B(5)
<i>Or</i>	
CHEM 105	Chemistry for Allied Health Professionals (4)
HLTH 101	Wellness in a Diverse Society (3)
HLTH 103	Emergency Medical Care (3)
HLTH 331	Nutrition for Health Professionals (3)
PSYC 101	Introduction to Psychology (3)

Elective Courses

12 credits selected from KNES upper-division courses

MAJOR: SPORT MANAGEMENT

The program in Sport Management is designed to address sport's unique position in American business and to prepare students for careers in athletic and recreation administration, the fitness industry, college and professional sports, and retail marketing.

Required Courses (21 Credits)

KNES 235	Individualized Fitness (3)
KNES 333	Sport Management (3)
KNES 353	Sport & Society (3)
KNES 355	Psychology of Sport (3)
KNES 393	A World History of Sport to 1900 (3)
<i>Or</i>	
KNES 451	History of American Sport (3)
KNES 395	Internship in Sport Studies (3)
KNES 453	Sport Administration (3)

Required Courses**OPTION I 21 credits**

(Fulfills requirements for major in Business Administration)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
ECON 202	Macroeconomics Principles (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MGNT 361	Principles of Management (3)
BULA 225	Legal Environment of Business (3)

OPTION II - Required Sport Management - 18 credits

(Does not fulfill requirements for minor in Business Administration)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
BULA 225	Legal Environment of Business (3)
MKTG 341	Principles of Marketing (3)
MNGT 361	Management & Organizational Theory (3)
MNGT 381	Human Resource Administration (3)

Additional Required Courses Option I and Option II - 13 - 16 credits

COMM 131	Fundamentals of Speech Communication (3)
COSC 115	Introduction to Information Systems (4)
PSYC 101	Introduction to Psychology (3)
ECON 201	Microeconomics (3)
MATH 231	Basic Statistics (3)

Electives

Students must choose 15 credits from KNES and selected business courses.

MAJOR: SPORT STUDIES

The Sport Studies program focuses on the current knowledge base and interpretations of human interaction in sport. The program provides a range of interdisciplinary study options leading to preparation for graduate study or employment in sports-related positions. The program includes concentrations in Psychology of Sport and Sport Communication.

Psychology of Sport Concentration

The program in Psychology of Sport is designed to address aspects of psychological study related to athletic performance, exercise, and physical activity. Students selecting this major must also declare a minor in Psychology.

Required KNES Courses (18 Credits)

KNES 235	Individualized Fitness (3)
KNES 353	Sport and Society (3)
KNES 355	Psychology of Sport (3)
KNES 393	World History of Sport to 1900 (3)
<i>or</i>	
KNES 451	History of American Sport (3)
KNES 395	Internship in Sport Studies (3)
KNES 433	Applied Sport Psychology (3)

Required Courses (23 credits)

PSYC 101	Introduction to Psychology (3)
PSYC 212	Behavioral Statistics (4)
PSYC 314	Experimental Psychology (4)

Select from the following to complete 23 credits. The elective courses must include at least one course from each of the following areas: Human Development, Clinical-Social Biopsychology, and Learning Cognition.

I. Human Development - 3 credits

PSYC 330	Psychology of Individual Differences
PSYC 403	Psychology of Infancy and Childhood
PSYC 404	Adolescent Psychology
PSYC 405	Psychology of Aging
PSYC 447	Sex Differences: Psychological Perspective
PSYC 451	Introduction to the Exceptional Child
PSYC 467	Midlife Development

II. Clinical Social - 3 credits

PSYC 311	Behavioral Modification
PSYC 325	Social Psychology
PSYC 327	Industrial Psychology
PSYC 341	Environmental Psychology
PSYC 350	Personality
PSYC 361	Abnormal Psychology
PSYC 409	Organizational Psychology
PSYC 411	Tests and Measurements
PSYC 421	Applications of Behavioral Principles of Family and Classroom Environment
PSYC 431	Group Dynamics

III. Biopsychology - 3 credits

PSYC 317	Sensation and Perception
PSYC 460	Ethology and Comparative Psychology
PSYC 465	Physiological Psychology

IV. Learning Cognition - 3 credits

PSYC 305	Psychology of Learning
PSYC 315	Motivation
PSYC 461	Cognitive Psychology

Additional Required Courses (11 credits)

COMM 131	Fundamentals of Speech Communication (3)
COSC 115	Introduction to Information Systems (4)
BIOL 110	Contemporary General Biology (4)

Electives

Students must choose 15 credits from KNES and selected psychology courses.

Sport Communication Concentration

The program in Sport Communication is designed to prepare students for careers in sports information, public relations, and the broadcast and print media.

Required KNES Courses (18 Credits)

KNES 235	Individualized Fitness (3)
KNES 353	Sport and Society (3)
KNES 355	Psychology of Sport (3)
KNES 393	World History of Sport to 1900 (3)
	or
KNES 451	History of American Sport (3)
KNES 395	Internship in Sport Studies (3)
KNES 437	Sport in the Media (3)

Required Speech and Mass Communication Courses (24 credits)**Required Core (15 credits)**

COMM 115	Introduction to Interpersonal Communication (3)
COMM 315	Business & Professional Communication (3)
*MCOM 125	Introduction to Public Relations and Advertising (3)
*MCOM 140	Introduction to Electronic Media (3)
*MCOM 151	Introduction to Journalism (3)
MCOM 355	News Writing

*Choose 2 of 3 courses. Note: MCOM 151 is a prerequisite for MCOM 355.

MCOM Electives -- select 3 courses (9 cr.)

MCOM 214	Principles of Advertising (3)
MCOM 265	Radio Production I (3)
MCOM 271	Television Production I (3)
MCOM 353	Principles of Public Relations (3)
MCOM 356	Feature Writing (3)
MCOM 357	Public Relations Writing (3)
MCOM 365	Radio Production II (3)
MCOM 371	Television Production II (3)
MCOM 375	Broadcast Performance (3)
MCOM 411	Communication Process (3)
MCOM 460-469	Internship (3)

Additional Required Courses (7 credits)

COMM 131	Fundamentals of Speech Communication (3)
COSC 115	Introduction to Information Systems (4)

Electives

Students must choose 15 credits from KNES courses.

PROFESSIONAL PREPARATION**ELEMENTARY EDUCATION**

The Department of Kinesiology offers three courses for students majoring in Early Childhood or Elementary Education. They are KNES 281-282, "Physical Education for Elementary Education Students I, II" and KNES 324, "Teaching Physical Education in the Elementary School." KNES 281-282 are prerequisites for KNES 324.

ATHLETIC COACHING (NON-MAJOR)

Designed for the non-major student, this emphasis area develops coaching skills and attributes that will foster leadership qualities necessary for coaching in community recreation programs, intramural and extramural activities, and varsity sports.

Students interested in this option should contact the department for further information.

Required Core (12 credits)

KNES 235	Individualized Fitness (3)
KNES 315	Care and Prevention of Athletic Injuries (3)
KNES 331	Principles of Coaching (3)
KNES 395	Internship in Sport Studies (3)

Electives (6 credits)

KNES 353	Sports and Society (3)
KNES 355	Psychology of Sport (3)
KNES 303	Organization and Administration of Physical Education (3)
	or
KNES 453	Sport Administration (3)

TRANSFER CREDIT POLICY

Kinesiology transfer credits will be evaluated by the department on an individual basis. A minimum of one-half of the credit hours required in the major (KNES) must be completed at Towson University. A "C" grade or better must be earned in all required courses and all prerequisites for required courses.

Department of Nursing

Professors: KIELINEN (Chair)

Associate Professors: COGLIANO, DAMRATOWSKI, LASHLEY

Assistant Professors: BARRICK, BASURAY, COOLEY, EIFRIED,

GREENER, JORDAN, KEENEN, LEE, MOLICK, TAYLOR, WITTSTADT

Adjunct Faculty: BARRON, GERCKE, HALSTEAD, McCARRON,

SHELTON, WILLIAMS-COOPER, WOOLDRIDGE

OFFICE

Burdick Hall, Room 123, (410) 830-2067

PROGRAMS OF THE DEPARTMENT

Nursing is both an art and a science with an evolving body of specialized knowledge derived from nursing research as well as from the synthesis of knowledge from related disciplines. Nursing, independently or collaboratively, guides and/or influences the behavior of others in their efforts toward optimizing the health status of individuals, families, groups, and communities.

Towson offers a program in professional nursing leading to the Bachelor of Science degree with a major in Nursing. The nursing curriculum includes courses in the liberal arts, the sciences, and nursing. The curriculum, designed for basic and registered nurse students, prepares the graduate to accept responsibility and accountability for the care of clients and families in a variety of health care settings, to function in beginning leadership roles, and to be consumers of and participants in nursing research. Students are also provided with the foundation for graduate study in nursing.

The nursing program is approved by the Maryland Board of Nursing and accredited by the National League for Nursing. Basic students graduating from the Nursing major are eligible to write the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The Department of Nursing holds membership in the American Association of Colleges of Nursing, the Council of Baccalaureate and Higher Degree Programs of the National League for Nursing, and the Council on Collegiate Education in Nursing of the Southern Regional Education Board.

MAJOR IN NURSING: BASIC STUDENTS

The university requires a minimum of 120 credits for graduation. However, established departmental requirements must also be completed for graduation with a Nursing major. This necessitates completion of more than 120 credit hours for most students enrolled in the department.

Students must complete all prerequisite course requirements prior to beginning the major. Contact the Department for specific information and assistance with program planning. Nursing courses must be completed in a sequential pattern as each course is foundational to the subsequent course. Part-time study options are available.

Pre-nursing students demonstrating competencies covered in MATH 115 (as determined by the Mathematics Department) may enroll in an alternative offering of one of the following: MATH 116; MATH 119, or MATH 273, in order to meet the mathematics requirement. Placement in the particular course is determined by the Mathematics Department.

As requirements may be revised from time to time, it is the student's responsibility to make certain that he or she is working with the most current materials. Contact the Department for assistance with program planning.

Requirements for the Major

In addition to the General Education requirements, Nursing majors must complete the following prerequisites prior to beginning major course work. Several of these courses can also meet GenEd requirements. (*GenEd)

*ENGL 102 Writing for a Liberal Education (3)

*BIOL 110 Contemporary General Biology (4)

BIOL 213 Human Anatomy and Physiology I (4)

BIOL 214 Human Anatomy and Physiology II (4)

BIOL 215 Fundamentals of Microbiology (4)

or

BIOL 315 Medical Microbiology (4)

*CHEM 105 Chemistry for Allied Health Professions I (4)

*CHEM 106 Chemistry for Allied Health Professions II (4)

*MATH 115 Basic Mathematics for Sciences (3)

*SOCI 101 Introductory Sociology (3)

*PSYC 101 Introduction to Psychology (3)

*PSYC 203 Human Development

HLTH 331 Nutrition for Health Professionals (3)

Required Course Sequence (Nursing Major)

JUNIOR YEAR

First Semester

NURS 331 Professional Nursing I: Introduction (2)

NURS 341 Alterations in Health (3)

NURS 343 Pharmacotherapeutic Agents (2)

NURS 345 Technology & Therapeutic Interventions (2)

NURS 347 Health Assessment Across the Lifespan (3)

NURS 351 Nursing Practice I: Health Promotion Across the Lifespan (4)

Second Semester

NURS 353 Nursing Practice II: Adults (5)

NURS 355 Nursing Practice III: Childbearing Families (5)

NURS 404 Health Care: An Interdisciplinary Approach (3)

or

NURS 406 Multicultural Health Care (3) (GenEd)

MATH 237 Biostatistics (3-4)

SENIOR YEAR

First Semester

NURS 431 Professional Nursing II: Research (2)

NURS 451 Nursing Practice IV: Psychiatric & Mental Health (5)

NURS 453 Nursing Practice V: Children (5)

NURS 404 Health Care: An Interdisciplinary Approach (3)

or

NURS 406 Multicultural Health Care (3) (GenEd)

Second Semester

NURS 433 Professional Nursing III: Issues (Adv Writing GenEd) (3)

NURS 455 Nursing Practice VI: Community Health (5)

NURS 457 Nursing Practice VII: Clinical Practicum (2)

NURS 459 Nursing Practice VIII: Leadership & Management (4)

MAJOR IN NURSING:

REGISTERED NURSE STUDENTS

Registered nurses seeking the baccalaureate degree with a major in nursing are eligible to receive credit for prior learning. The Department of Nursing participates in a statewide Validation Model. Since RN students represent a variety of learning and practice experiences, every effort is made to design an individual program that will meet the learning needs of the student while, at the same time, offering a curriculum which provides the foundation for nursing practice at the baccalaureate level. The baccalaureate nursing program builds upon the student's previous learning, ensures a broad base in the liberal arts, and offers nursing courses which are designed to enhance professional nursing practice. RNs are advised to contact the Department for assistance with admission and program planning.

TRANSFER AND SECOND DEGREE STUDENTS

Transfer students and those seeking a second baccalaureate degree are admitted to the university according to university policies and procedures. Generally, transfer students must complete all required nursing courses of the Department of Nursing at Towson University. Nursing courses completed in another baccalaureate nursing program are evaluated individually for equivalence by the Department's Admissions and Continuance Committee.

ADMISSION TO THE NURSING MAJOR

Before a student can be considered for admission to the Nursing major, he or she must be admitted to or have applied for admission to the university. Transfer students must adhere to the university's transfer policy.

Admission to the Nursing major is made only by the Admissions and Continuance Committee of the Department. Admission to the university does not constitute or guarantee admission to the major. Students are admitted in both the fall and spring semesters of each academic year. The Application for Admission to the Nursing Major is available from the Department of Nursing office. It is to be returned to the Admissions Coordinator, Department of Nursing, by January 15th for fall admission and August 15th for spring admission. Since the process requires official transcripts from all educational institutions that the student attended, students should allow sufficient time for receipt of transcripts in the Department by the due date.

BASIC PROGRAM

High school students are advised to take the following courses to provide the base necessary to complete the prerequisite courses for the Nursing major: mathematics -- 3 units (two years of algebra and one year of geometry); chemistry -- 1 unit; biology -- 1 unit. Physics, although not required, is recommended.

Eligibility and Screening: Admission to the major is contingent upon the student being screened and admission being offered to the applicant by the Department's Admissions and Continuance Committee. The screening process takes place during the semester prior to the student's anticipated enrollment in the first Nursing course. Students are eligible to apply for admission after they have completed a minimum of 42 undergraduate credits, including at least four laboratory sciences and ENGL 102. Only one "D" is allowed as a grade in these courses. As of January 1998 only one grade below a C is allowed in prerequisite or General Education courses, and no more than two courses may be repeated. A minimum quality point average of 2.5 on a 4.0 scale is required; however, students must note that achievement at the 2.5 level in itself does not guarantee admission to the Program. The higher the applicant's QPA the greater the possibility of being offered admission.

REGISTERED NURSE COMPLETION PROGRAM

To be eligible for admission students must have graduated from a state-approved diploma or associate degree nursing program and be licensed as a Registered Nurse in Maryland. Recent graduates may be admitted pending successful completion of the NCLEX-RN. Students applying for admission to the Nursing major must either have been admitted to the university or be currently seeking admission to the university.

Three advanced placement options are available for RNs through a statewide Validation Model. All students are eligible to take advanced placement examinations as one option. Two other options are available depending upon year of graduation and/or location of diploma or associate degree nursing program.

Registered Nurse students are advised to contact the Department of Nursing for advisement prior to completion and submission of the application for admission to the university. At that time a determination will be made of the validation option that is most appropriate for the individual student.

Eligibility and screening: Admission to the Nursing program is granted only by the Admissions and Continuance Committee of the Department. Eligibility requirements are dependent upon the option chosen. In addition, RN students are required to have a minimum quality point average (QPA) of 2.5 on a 4.0 scale. Only one "D" grade is allowed in the non-nursing courses required for the Nursing program. Students validating their basic nursing education through the "transition course" option must have completed these courses prior to admission to the nursing major.

ACADEMIC STANDARDS

In order to remain in and graduate from the Nursing major, students are required to maintain a grade of "C" (2.0) or better in both the theory and clinical component in each Nursing course, in addition to maintaining a 2.0 overall cumulative Quality Point Average.

The *Nursing Student Handbook* provides additional information concerning Department of Nursing policies and is distributed upon enrollment in the major.

SPECIAL FINANCIAL OBLIGATIONS

All students in the Nursing major are required to

- carry nursing student liability insurance through the university;
 - carry hospitalization insurance including accident and/or emergency benefits;
 - purchase departmental uniforms and supplies (approximately \$700 for basic students and \$200 for RN students);
 - have a valid driver's license and access to the independent use of a car in order to provide own travel to and from clinical facilities;
 - assume financial responsibility for expenses related to the required physical examination and laboratory/screening tests.
- Information about financial assistance may be obtained from the university's Office of Financial Aid.

Information sessions are offered throughout the year. For additional information contact the Department of Nursing.

Department of Occupational Therapy

Associate Professors: EXNER (Chair), REITZ, STEVENS-RATCHFORD

Assistant Professors: COLEMAN, DENNIS, ESKOW, ISENNOCK,

MERRYMAN, NESBIT, RILEY, WEINSTEIN

Field Work Administrator: BLAKE

Adjunct Faculty: GLEESON, HAYS, HOLLAND, KYLER-HUTCHISON,

MURPHY, PATZ, STORCH, WALTERMIRE, WINKLER

OFFICE

Lida Lee Tall, Room 305, (410) 830-2762

PROGRAMS OF THE DEPARTMENT

Occupational therapy is the art and science of directing human participation in selected tasks to restore, reinforce and enhance performance, facilitate learning of skills and functions essential for adaptation and productivity, diminish or correct pathology, and promote and maintain health. Occupational therapists direct the use of self-care, work, homemaking, play and leisure activities. They use these activities to assist individuals or groups whose health is threatened or impaired by developmental deficits, aging, poverty and environmental conditions, physical injury or illness, and psychological and social disability.

The Department of Occupational Therapy currently offers a *three-year program of study in Occupational Therapy* designed to provide a liberal education and develop professional competence. The program of study leads to a baccalaureate degree in Occupational Therapy. The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-AOTA. Graduates of the program will be able to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. (Persons convicted of felonies may be unable to sit for the Certification Examination and should inquire in advance of program entry regarding eligibility.)

Occupational therapy is a profession which demands that its practitioners have clinical competencies as well as academic knowledge. Students who have less than a 2.50 QPA will not be permitted to enroll in OTH 435/436. In addition to satisfactory completion of coursework, students must demonstrate appropriate clinical behaviors and skills prior to beginning clinical/internship experiences. In the event that a student lacks appropriate clinical behaviors and/or skills and/or does not have satisfactory academic performance in one or more required courses, he/she will be provided with counseling by the occupational therapy faculty, and recommendations for remedial courses of action will be made.

Students are expected to be aware of the Ethics Code of Conduct established by the Occupational Therapy Department and to adhere to it. Violation of the standards set forth in this document will be cause for disciplinary action which may include dismissal from the Occupational Therapy Program.

The department also offers the *Master of Science in Occupational Therapy*.

Permit Cards

Special permit cards are required for admission to all occupational therapy major courses.

Health and Insurance Requirements

Contracts with clinical facilities require that students in clinical placements show proof of current health insurance and documentation of current health status. The findings of the health examination will not necessarily exclude the student from clinical placement. Students must present evidence of current health insurance, a recent health examination, and results of a P.P.D. test prior to enrollment in the first clinical experience. Annual updates are required. These students also must complete the Hepatitis B vaccine series or sign a declination form for the vaccine.

First Aid and CPR Courses

It is highly recommended that students complete a standard course in First Aid. Cardiopulmonary resuscitation (CPR) certification is required prior to beginning the program. Yearly updates for CPR certification are required also during enrollment in the major.

PRE-ADMISSION REQUIREMENTS FOR ALL CANDIDATES

Admission to the university does not guarantee admission to the Occupational Therapy major. Occupational Therapy faculty and administrative staff will advise potential students about the nature of the profession, the national certification examination and the occupational therapy curriculum prior to admission at the request of the student.

SCREENING CRITERIA

Applicants are encouraged to attend a program information session in the Occupational Therapy Department prior to applying to the program. Application/screening materials for the Occupational Therapy Program applicants must be received in the Occupational Therapy Department on or before March 1. All students applying for admission to the undergraduate Occupational Therapy Program at Towson University must meet the following criteria:

1. Applicants must have applied to Towson University for fall admission by February 1.
2. Applicants must have completed a minimum of 14 credits in college courses by the end of the fall semester preceding screening.
3. Applicants must have a grade of "B" or better in the following courses or their equivalents completed prior to March 1:
 - a. BIOL 110, Contemporary General Biology (must be completed by end of fall semester preceding screening).
 - BIOL 213, Anatomy and Physiology I, may be substituted for BIOL 110 for screening purposes.
 - b. And two (2) out of three (3) of the following courses:
 - PSYC 101 Introduction to Psychology
 - SOCI 101 Introduction to Sociology
 - ENGL 102 Writing for a Liberal Education

All of these courses must be completed by the end of the semester in which screening takes place with a grade of "B" or better.

4. Applicants must have completed PHYS 201, General Physics B, or PHYS 211, General Physics I or the equivalent with a grade of "C" or better by the end of the Spring semester in which screening takes place. Only PHYS 211, General Physics I will meet a General Education requirement.
5. Applicants must have a minimum overall quality point average of 2.70 by the end of the fall semester preceding screening.
6. Applicants must submit the following documents in *one* packet by March 1:
 - a. Official transcripts that include coursework taken through the Fall Semester preceding application to the program.
 - b. Evidence of spring semester enrollment in PHYS 201 General Physics B or PHYS 211 General Physics I and the other prerequisite course, if not previously completed.
 - c. The Human Service Activity Verification Form, which provides evidence of completion of at least 30 hours of work and/or volunteer experience in a human service activity.

This work or volunteer experience must have involved direct contact with people with disabilities, illness, or other disadvantages. Examples include work/volunteer experience with clients in hospitals, nursing homes, rehabilitation facilities, senior centers, drug rehabilitation programs, programs for the homeless, camps, etc.

- d. A typewritten application essay using the guidelines provided by the Department.
- e. Three reference forms completed by appropriate individuals and submitted in accordance with application requirements.
7. Applicants must have a completed Prerequisite Course Form on file by March 1. In addition, applicants who wish to have courses not listed on this form approved as equivalent to major courses in this program must submit a written request for approval of these courses.
8. A minimum of 23 credits that meet General Education requirements must have been completed prior to beginning the first semester of the Occupational Therapy Program.

Applicants with credits over 10 years old may petition (in writing by March 1) to have these credits not included in the calculation of the QPA if the applicant has successfully completed 14 or more credits within the past two years. These 14 credits must include either BIOL 110 Contemporary General Biology or BIOL 213 Anatomy and Physiology I (or their equivalent). When this option is approved, ALL credits over 10 years old are omitted from QPA computation, with the exception of grades for PSYC 101, SOCI 101, ENGL 102, and PHYS 201 or PHYS 211. If the applicant wishes old screening course grade(s) to be omitted, she/he must have retaken the screening course(s) within the past 10 years. If a petition regarding omission of these grades is not received by the application deadline, all courses over 10 years old will be used in computation of the QPA.

SCREENING

Faculty and clinical resources make it necessary to limit the number of students accepted.

First Level of Screening

Initial screening, which is based on QPA, will occur immediately after March 1 for applicants who have complete files. Overall QPAs will be computed. The top 60 applicants will be identified.

Second Level of Screening

The Occupational Therapy Department's Screening Committee will review documents of the top 60 applicants and evaluate these applicants based upon their QPAs, essays, and references. The top candidates from this pool of applicants will be selected for admission.

A maximum of 25% of the group of applicants selected will be out-of-state students, unless qualified in-state students are unavailable.

Selection of the top candidates will be completed by April 15. After May 15 a waiting list will be developed of the other applicants in this pool of 60 who were not accepted and who wish to remain on the waiting list for classes beginning that fall semester. The top candidate on the list is notified if a place becomes available in the class. If that candidate can not accept the place, the next candidate is notified. This list is maintained until the end of the drop-add period in the fall. The waiting list does not carry over into the next year.

Requirements for the Major

In addition to the General Education requirements, Occupational Therapy majors must complete 45 credits in occupational therapy courses, 13 credits in other required courses, and 20 credits in clinicals and internships. Additional elective credits may be required to earn the total of 120 credits necessary for graduation.

Students must maintain a cumulative quality point average of at least 2.5 following admission into the Occupational Therapy Major. Students who have less than a 2.5 QPA and/or who do not demonstrate appropriate professional behaviors and necessary clinical skills will

not be permitted to enroll in OCTH 435/436. A "D" grade in a required course will not count for major credit. A student receiving a "D" grade in a major course or a "U" in OCTH 435/436 may retake the course once to improve his or her standing. Pass/D/F courses are not permitted in the major.

Required Course Sequence

Sophomore Year

First Semester (Fall)

OCTH 213	Small Group Dynamics (3)
OCTH 216	Life Span Adaptation & Occupations (4)
OCTH 217	Task Analysis I (4)
BIOL 213	Anatomy & Physiology I (4)

Spring Semester (Spring)

OCTH 211	Philosophy of O.T. (3)
OCTH 218	Task Analysis II (3)
BIOL 214	Anatomy & Physiology II (4)
BIOL 427	Neuromuscular Mechanisms of the Upper Body (2)
PSYC 361	Abnormal Psychology (3)

Junior Year

First Semester (Fall)

OCTH 221	Clinical Kinesiology (3)
OCTH 314	Psychosocial Dysfunction (4)
OCTH 315	Pathological Conditions (3)
OCTH 320	Psychosocial Dysfunction Clinical (2)
HLTH 207	Health Care in the U.S. (3)

Second Semester (Spring)

OCTH 313	Physical Dysfunction: Neurological Conditions (3)
OCTH 317	Physical Dysfunction: Musculoskeletal Conditions (2)
OCTH 319	Physical Dysfunction Clinical (2)
OCTH 323	Gerontological Occupational Therapy (2)
MATH 237	Biostatistics (4)
Or	
MATH 231	Basic Statistics (3)
Gen Ed Course	

Summer

OCTH 435	Internship I (Optional*) (6)
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Senior Year

First Semester (Fall)

OCTH 325	Pediatric Occupational Therapy (4)
OCTH 326	Pediatric Clinical (2)
OCTH 412	O.T. Health Promotion Initiatives in the Community (2)
OCTH 428	O.T. Organizations in Modern Society (3)
OCTH 429	Seminar in O.T. Administration (1)
OCTH 430	Research Methods in O.T. (3)

*Internship I (OCTH 435) may be taken between the fourth and fifth semesters of the program only if the student is taking Specialty Internship (OCTH 437), if internship sites are available, and if faculty approval is received.

Second Semester (Spring)

OCTH 435	Internship I (6)
Or	
OCTH 436	Internship II (6)
Or	
OCTH 437	Specialty Internship (3-6)

All OT students must complete Level I Fieldwork within 24 months following completion of academic preparation

In addition to the above courses, students are required to complete all General Education requirements during regular semesters or summer sessions. Students must complete all GenEds by the end of the fifth semester of the program.

Students in this program may not take occupational therapy courses prior to the semesters in which they are scheduled on this plan. Effective date of this program: Fall 1996.

CERTIFIED OCCUPATIONAL THERAPY ASSISTANTS

Certified occupational therapy assistants may ask to have courses taken in fulfillment of their degree reviewed to determine if any of these courses may substitute for required 200 level courses in the occupational therapy program of study at Towson University. Depending upon type and number of courses accepted as equivalent to TU courses, permission to complete the academic program in four semesters of academic coursework and six months of fieldwork may be granted. Students who wish to be considered for this option must notify the Department in writing of their request and must provide course descriptions.

MASTER OF SCIENCE IN OCCUPATIONAL THERAPY

The Master of Science in Occupational Therapy is designed for individuals with bachelor's degrees who are interested in assuming leadership roles in the profession and obtaining advanced education in pediatrics or gerontology with emphasis on teaching, research or clinical practice. A specialization in occupational therapy organization/administration is also offered. Those individuals who are not occupational therapists must be screened for admission to the pre-occupational therapy component of the program and must successfully complete prerequisite courses prior to enrolling in graduate degree program occupational therapy courses. For further information consult the *Graduate Catalog*.







The College of Liberal Arts

The liberal arts are the core disciplines of the university, those disciplines whose purpose it is to study and interpret what it means to be human, both as individuals and as members of groups. Study of the liberal arts frees us to think more clearly, to analyze and interpret information, to weigh points of view, to arrive at informed judgments about complex issues, and to appreciate the rich diversity of human culture.

The College of Liberal Arts is committed to providing comprehensive opportunity for undergraduate and graduate instruction. The liberal arts curriculum helps students develop the ability to analyze and interpret information and opinions objectively, form and express conclusions creatively, express themselves clearly, appreciate the wide diversity of human culture, and move comfortably in the world of ideas and values. Degree programs in the College of Liberal Arts emphasize professional career opportunities and interdisciplinary study, as well as more traditional theoretical aspects of the disciplines.

Teaching

While using effective traditional teaching methods, Towson has also been in the forefront of the development of innovation in instruction. The College of Liberal Arts has an up-to-date language lab, and computer classrooms for English, geography, and the other social sciences. The college encourages small classes, an emphasis on writing, and personal attention to students. College of Liberal Arts faculty are in the forefront of curriculum innovation in writing instruction and in infusion of material on cultural diversity.

Scholarship

Commitment to undergraduate education is reflected not only in teaching excellence, but also in the faculty's active involvement in scholarly activity and professional growth, including publications, presentations at professional meetings, and participation in regional, national, and international conferences and workshops. Opportunities also exist for students to become involved in collaborative research with faculty, further developing students' academic and personal growth while providing new avenues for the College of Liberal Arts to meet the challenge of continued excellence in education.

Service

The College of Liberal Arts has the responsibility to serve the metropolitan community in many ways, contributing to its cultural life and social progress. Faculty members provide expertise and information to the community and take active roles in responding to a wide range of social problems. They enrich the cultural environment, offering institutional or community sponsorship. The departments, centers and institutes of the college develop creative partnerships with public and private enterprises that ensure that the intellectual resources of the institution are fully engaged with such enterprises in ways that are mutually beneficial and serve the people of the Baltimore metropolitan area. Within the university, faculty of the college serve on the essential committees, governing bodies, and task forces which promote the educational administrative functions of the university.

Dan L. Jones, Dean
COLLEGE OFFICE
Linthicum Hall, Room 102A
(410) 830-2128

Department of English

Professors: AVERY, BAKER, BEHM, BERGMAN, CHAPPELL, COULTER, FRIEDMAN, HAHN, HARRISS (*Acting Chair*), JONES, WILKOTZ

Associate Professors: COOK, DOUGLAS, DUNCAN, GISSENDANNER, J. HILL, C. HILL, KOOMJOHN, H. LILLYWHITE, MAHIN, MIERS, NEWMAN, WOOD

Assistant Professors: ALLEN, COLDIRON, CONNOLLY, EDGINGTON, FRANKEL, GIBSON, GREENE, LEGAULT, SULFRIDGE, TINKLER

Instructors: AMPADU, BASS, BENNER, PIPPEN, SHALLER

Adjunct Faculty: ANOZIE, BLUMNER, BRODY, BYER, CASTRO, CHANG, CRAWFORD, DeCRAENE, DI LA YSLA, ECONOMOU, FLYNN, GERL, H. JOHNSON, K. JOHNSON, JOHNSTON, KEARNEY, KEATING, KILLGALLON, E. LILLYWHITE, McMURRAY, McTAGUE, MILLER, MPOFU, PIPPEN, SCHARPER, SEAGLE, SEIDEL, HACKMAN, SHERRILL, SPARROW, SPRINKLE, THOMPSON, VAN HOOFF, WEIDMAN

OFFICE

Linthicum Hall, Room 218K, (410) 830-2871

PROGRAMS OF THE DEPARTMENT

"Language," said Dr. Samuel Johnson, "is the dress of thought." It is the basis of our knowledge, criticism, and appreciation not only of literature but of life itself. Courses in English thus are the cornerstone of a liberal education.

To meet the needs of the full range of students of the university, the English Department offers several programs. *General Education requirements and electives* give training in writing, language skills, and the interpretation of literature. *The English Major* serves students who wish to make literature and writing the focus of their undergraduate program and seek careers in education, publishing, journalism, technical writing, the law, or other fields for which English provides an excellent preparation. *The English Minor* is designed for students who have an interest in literature and writing but choose another major. *The Minor in World Literature* enables students to explore interdisciplinary relationships in the study of English, history, and modern language. In addition, the department supports General Studies concentrations in American Studies, African-American Studies, Ethnic Studies, and Women's Studies.

Courses in English encourage an appreciation of literature through reading, analysis, and writing. Since literature treats every subject of human interest, English courses complement many other disciplines. Students are encouraged to elect courses in English to broaden their academic experience. Such study provides important vocational advantages and also enriches daily life.

Foreign Language Recommendation

The department urges students who plan to enter graduate study in English to earn a B.A. by completing the intermediate level of a foreign language.

MAJOR IN ENGLISH

The undergraduate degree in English is now earned through completing one of three tracks.

The Liberal Arts Track (36 credits) is designed for those students with a general or vocational interest in languages and literature, for those preparing for graduate study in English, and for those using an English major as foundation for entering a professional school (law, medicine, journalism, and others).

The Writing Track (42 credits) provides students with an opportunity to refine the techniques and applications of creative and expository writing and to prepare for careers as writing specialists in government, business, and industry.

The English Secondary Education Track (36 credits) prepares students to serve as teachers of English and language arts in middle, junior high, and senior high schools and to meet national and Maryland State standards for certification.

Requirements for the three tracks are similar. All English majors explore literary heritage through completing a specified number of courses in the historical periods of literature, the literary genres, and the thematic, topical, and metaphorical relationships of literature. Skill in analysis and research derives from completing six to nine credits of coursework in formal analysis of genre, literary analysis and research, and an in-depth study of at least one major writer and related scholarship. A knowledge of linguistics comes through completing upper-division credits of coursework in the area. Effective writing is assured both by the department's policy that all courses emphasize writing and by the requirement that every student complete six to nine credits in coursework centered on learning the techniques of exposition: ENGL 102, Writing for a Liberal Education, or ENGL 190, Honors Writing Seminar; ENGL 361, Literary Research and Applied Criticism; and one upper-level course in expository writing.

Sequence of Courses

Students will take ENGL 102 or ENGL 190 during the first semester. ENGL 221, ENGL 222, and ENGL 261 will usually be completed during the second and third semesters. *ENGL 361, Literary Research and Applied Criticism, should be taken concurrently with the student's first upper-level literature course.*

Requirements for the Liberal Arts Track

The Liberal Arts Track requires a total of 36 credits with a grade of "C" or better.

I. Literary Heritage (18 credits required)

A. Surveys of Development and Period

ENGL 221	British Literature to 1798 (3)
ENGL 222	British Literature Since 1798 (3)

Two of the following. One course from this group or from the Literary Genre group below must represent literature before 1798 (courses marked with an asterisk).

ENGL 321	Medieval British Literature* (3)
ENGL 323	British Renaissance Literature*(3)
ENGL 324	British Literature of the Later Renaissance* (3)
ENGL 325	Eighteenth-Century British Literature* (3)
ENGL 326	Literature of the British Romantic Period (3)
ENGL 327	The Victorian Age (3)
ENGL 341	History and Literature of the Old Testament* (3)
ENGL 431	Literature of the American Romantic Period (3)
ENGL 432	Literature of the American Realistic Period (3)

B. Literary Genre

One of the following

ENGL 322	British Medieval and Renaissance Drama* (3)
ENGL 331	American Drama (3)
ENGL 344	The Continental Novel (3)
ENGL 345	Prospectives in World Drama* (3)
ENGL 346	Modern Drama (3)
ENGL 420	Development of the British Novel: Eighteenth Century* (3)
ENGL 421	Development of the British Novel: Nineteenth Century (3)
ENGL 422	Development of the British Novel: Twentieth Century (3)
ENGL 423	Modern British Poetry (3)
ENGL 433	American Short Story (3)
ENGL 435	Development of the American Novel: Nineteenth Century (3)
ENGL 436	Development of the American Novel: Twentieth Century (3)
ENGL 437	American Poetry Through Frost (3)
ENGL 438	Modern American Poetry (3)
ENGL 439	Modern World Poetry (3)
ENGL 441	Modern Fiction To World War II (3)
ENGL 442	Modern Fiction Since World War II (3)

C. Thematic and Topical Course

One of the following

ENGL 230	Main Currents in American Literature (3)
ENGL 233	African-American Literature (3)
ENGL 234	Major Writers in African-American Literature (3)
ENGL 235	Ethnic-American Literature (3)
ENGL 236	American Indian Literature (3)
ENGL 237	Jewish Literature of the Nineteenth and Twentieth Centuries (3)
ENGL 240	Classics of the Western Heritage (3)
ENGL 243	Classical Mythology (3)
ENGL 244	World Folklore (3)
ENGL 248	Literature of Global Experience (3)
ENGL 270	Ideas in Literature (3)
ENGL 290	Honors Seminar in Literature (3)
ENGL 342	Folklore and Literature (3)
ENGL 343	Myth and Literature (3)
ENGL 347	World Literature Written in English (3)
ENGL 363	Film and Literature (3)
ENGL 370	Special Topics: Literature of Women (3)
ENGL 371	Women Poets: Themes and Images (3)
ENGL 372	Women Writers (3)
ENGL 373-79	Themes in Literature (3)
ENGL 471-77	Topics (if in literature) (3)
74, 476-77	
ENGL 485-86	Seminar (if in literature) (3)

II. Analysis and Research (9 credits required)

A. Formal Analysis of Genre

ENGL 261	Tradition and Form in Western Poetry (3)
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B. Literary Analysis and Research

ENGL 361	Literary Research and Applied Criticism (3)
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C. Study of Major Figure and Related Scholarship

One of the following

ENGL 425	Chaucer (3)
ENGL 427	Shakespearean Comedy (3)
ENGL 428	Shakespearean Tragedy (3)
ENGL 429	Milton and The Humanist Tradition (3)

Note: With approval of departmental advisor and chair, a student may substitute a seminar or topics course that focuses on one or two major figures.

III. Linguistics and History of Literary Criticism (3 credits required)

One of the following

ENGL 350	Comparative Grammar (3)
ENGL 351	Historical Linguistics (3)
ENGL 352	Structural Linguistics (3)
ENGL 353	History of American English (3)
ENGL 451	History of the English Language (3)
ENGL 452	Structure of the English Language (3)
ENGL 461	History of Literary Criticism (3)
ENGL 462	Modern Literary Theory (3)
ENGL 475	Topics in Linguistics (3)

IV. Writing (6 credits required)

One of the following

ENGL 102	Writing for a Liberal Education (3)
	or
ENGL 190	Honors Writing Seminar (3)

One of the following

ENGL 310	Writing Argument (3)
ENGL 313	The Academic Essay (3)
ENGL 315	The Literary Essay (3)
ENGL 316	Writing About Literature (3)
ENGL 317	Writing for Business and Industry (3)
ENGL 318	Advanced Informational Writing (3)
ENGL 333	Women's Words, Women's Lives (3)
ENGL 411	Organizational Communication (3)

Requirements for the Writing Track

The Writing Track requires a total of 42 credits completed with a grade of "C" or better. The course requirements for the Writing Track are

identical to those for the Liberal Arts Track, with the exception that students in the Writing Track need not complete ENGL 361, Literary Research and Applied Criticism, but must complete four upper division writing courses, one of which must be ENGL 313, 315, 317, 318, WMST 333, or WRIT 411. Applicable upper-level courses are:

ENGL 311	Writing Poetry (3)
ENGL 312	Writing Fiction (3)
ENGL 313	Advanced Composition (3)
ENGL 315	Creativity and Style in Writing Non-Fiction (3)
ENGL 316	Writing About Literature (3)
ENGL 317	Writing for Business and Industry (3)
ENGL 318	Advanced Informational Writing (3)
ENGL 361	Literary Research and Applied Criticism (3)
WMST 333	Women's Words, Women's Lives (3)
WRIT 411	Organizational Communication (3)
ENGL 417	Topics in Writing (3)
ENGL 465	British and American Prose (3)
ENGL 490	Directed Studies in English (when applicable) (3)

Requirements for the English Secondary Education Track

Students planning to teach English in middle schools, junior high schools, or senior high schools must complete all courses in Secondary Education required for teacher certification (see the Department of Secondary Education) and 36 credits with a grade of "C" or better in all English courses required for graduation. In addition, Secondary Education requires that students hold at least a 2.75 average in their major and Secondary Education courses and have a minimum 2.5 overall GPA, including grades from any college-level institutions they attended previously.

Students must complete at least one upper-level course in American literature and one in world literature, chosen from those which fill specific areas of major requirements or offered as electives. They are also strongly advised to plan a program which includes study of mythology, minority literature, non-Western literature, and Shakespeare.

English Secondary Education students must register with both the English Department and the Secondary Education Department. They will be assigned advisors by both departments.

Course requirements are listed below:

I. Literary Heritage (18 credits required)

A. Surveys of Development or Period

ENGL 221	British Literature to 1798 (3)
ENGL 222	British Literature Since 1798 (3)

Note: English-Education students are urged to elect at least one additional lower-division survey in world, American, or minority literature.

Two of the following. One course from this group or from the Literary Genre group below must represent literature before 1798 (courses marked with an asterisk).

ENGL 321	Medieval British Literature* (3)
ENGL 323	British Renaissance Literature* (3)
ENGL 324	British Literature of the Later Renaissance* (3)
ENGL 325	Eighteenth-Century British Literature* (3)
ENGL 326	Literature of the British Romantic Period (3)
ENGL 327	The Victorian Age (3)
ENGL 341	History and Literature of the Old Testament* (3)
ENGL 431	Literature of the American Romantic Period (3)
ENGL 432	Literature of the American Realistic Period (3)

B. Literary Genre

ENGL 322	British Medieval and Renaissance Drama (3)
ENGL 331	American Drama (3)
ENGL 344	The Continental Novel (3)
ENGL 345	Perspectives in World Drama* (3)
ENGL 346	Modern Drama (3)
ENGL 420	Development of the British Novel: Eighteenth Century* (3)
ENGL 421	Development of the British Novel: Nineteenth Century (3)
ENGL 422	Development of the British Novel: Twentieth Century (3)
ENGL 423	Modern British Poetry (3)
ENGL 433	American Short Story (3)

ENGL 435	Development of the American Novel: Nineteenth Century (3)
ENGL 436	Development of the American Novel: Twentieth Century (3)
ENGL 437	American Poetry Through Frost (3)
ENGL 438	Modern American Poetry (3)
ENGL 439	Modern World Poetry (3)
ENGL 441	Modern Fiction To World War II (3)
ENGL 442	Modern Fiction Since World War II (3)

C. Thematic and Topical Course

EDUC 418	Young Adult Literature (3)
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ENGL 344	Continental Drama
ENGL 347	World Literature Written in English
ENGL 348	Post-Colonial Literature
ENGL 373-9	Themes in Literature (when the subject is appropriate)
ENGL 439	Modern World Poetry
ENGL 441	Modern Fiction to World War II
ENGL 442	Modern Fiction since World War II
ENGL 443	Short Fiction in World Literature
ENGL 461	History of Literary Criticism
ENGL 462	Modern Literary Theory
ENGL 471	Topics in World Literature

II. Analysis and Research (9 credits required)**A. Formal Analysis of Genre**

ENGL 261	Tradition & Form in Western Poetry (3)
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B. Literary Analysis and Research

ENGL 361	Literary Research and Applied Criticism (3)
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C. Study of Major Figure and Related Scholarship*One of the following*

ENGL 425	Chaucer (3)
ENGL 427	Shakespearean Comedy (3)
ENGL 428	Shakespearean Tragedy (3)
ENGL 429	Milton and The Humanist Tradition (3)

Note: With approval of departmental advisor and chair, a student may substitute a seminar or topics course that focuses on one or two major figures.

III. Language and Linguistics (3 credits required)*One of the following*

ENGL 350	Comparative Grammar (3)
ENGL 353	History of American English (3)
ENGL 451	History of the English Language (3)
ENGL 452	Structure of the English Language (3)

Note: It is also recommended that students in English Education first complete ENGL 251, Applied Grammar.

IV. Writing (6 credits required)*One of the following*

ENGL 102	Writing for a Liberal Education (3)
	or
ENGL 190	Honors Writing Seminar (3)

One of the following

ENGL 310	Writing Argument (3)
ENGL 313	The Academic Essay (3)
ENGL 315	The Literary Essay (3)
ENGL 316	Writing About Literature (3)
ENGL 317	Writing for Business and Industry (3)
ENGL 318	Advanced Informational Writing (3)
WMST 333	Women's Words, Women's Lives (3)
WRIT 411	Organizational Communication (3)

MINOR IN ENGLISH

Students minoring in English are required to complete 24 credits in English with a grade of "C" or better. In addition to ENGL 102, Writing for a Liberal Education, students must take six credits at the 200 level, six hours at either the upper or lower level, and nine hours at the upper level. Students must work with departmental advisors to design programs which will be coherent and purposeful.

MINOR IN WORLD LITERATURE

Students minoring in World Literature must complete 24 credits with a grade of "C" or better. Twelve credits must be taken at the 300 - 400 level. Courses should be selected in consultation with the student's English Department minor advisor.

Core Requirements (9 credits)

ENGL 102	Writing for a Liberal Education or ENGL 190 Honors Writing Seminar
ENGL 240	Classics of the Western Heritage
ENGL 248	Literature of the Global Experience

Three of the following courses (9 credits)

ENGL 342	Folklore and Literature
ENGL 343	Myth and Literature

Electives

Electives may be chosen from the courses listed above or from other courses in British and American literature, folklore, mythology, ethnic literature, or literary criticism selected in consultation with the student's minor advisor. With the permission of the minor advisor and the English Department chairperson, up to 6 credits may be taken in literature courses taught in a foreign language. These courses are offered through the Department of Modern Languages; course descriptions may be found under the listings for the specific language.

COURSE PREREQUISITES

Course prerequisites are noted in the course descriptions. The department strictly enforces prerequisites.

MEETING GENERAL EDUCATION REQUIREMENTS/COMPETENCY

Every student in the university must complete ENGL 102 or ENGL 190 with a grade of "C" or better to satisfy the GenEd I.A requirement.

The student may take additional courses to complete General Education requirements. Many 200-level and some 300-level courses fulfill General Education Requirements.

The student may select any of the following advanced writing courses to fulfill GenEd I.D: ENGL 310; ENGL 313; ENGL 315; ENGL 316; ENGL 317; ENGL 318. Any student may, of course, take additional elective credits in English.

Some students will be required to complete special competency courses in language and writing in addition to meeting GenEd requirements in English. Students for whom English is not a native language may be required to complete courses in English as Second Language as a prerequisite to enrollment in ENGL 102, Writing for a Liberal Education (see "Undergraduate Admissions: International Students"). Students whose entering scores indicate they need additional preparation to meet the standards of college-level expository writing will be required to complete DVWR 101, Preparation for College Writing, as prerequisite to enrollment in ENGL 102. Students must earn a grade of "S" or a letter grade of "C" or better in the Developmental Writing course they are required to take before they are eligible to enroll in ENGL 102.

TRANSFER CREDIT POLICY

The English Department accepts English credits from accredited colleges and universities. However, to meet GenEd requirements, a student must either present three transfer credits in a college level composition course, with a grade of "C" or better, or earn a "C" or better in ENGL 102 or ENGL 190 at Towson University. Students registering in the department's major and minor programs must complete a minimum of 12 credits in English Department offerings at Towson University.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The English Department awards credit through the Advanced Placement Program of the university. Also, a selected number of entering freshmen are placed in ENGL 190 rather than the ENGL 102. The department offers credit for most courses, other than upper-level writing courses, through the Credit for Prior Learning program. Students applying for credit under this program complete an examination, an interview, and at least one paper in the area.

ENGLISH HONORS AND ACTIVITIES

The department participates in the Honors Program. As a member of the Honors College, the English Department offers a number of intensive introductory seminars for qualified students. It also sponsors departmental honors whereby students pursue independent study leading to the completion of a thesis. Students interested in departmental honors should consult the chair of the English Department no later than the first semester of their junior year. Honors are designated on the graduate's transcript and diploma.

By a vote of the English faculty, the outstanding graduate in the department receives the Gerry Buettner Award at commencement.

Lambda Iota Tau is the national literary honor society with a chapter in the department, and the *English Club* is an informal association of majors, minors, and professors who meet to exchange ideas about literature.

Students may publish in two literary publications: *Grub Street* and *Ladysmith*.

DUAL MAJOR PROGRAM

Students who major in one of the other programs of the university yet retain a strong interest in language, literature, or writing are urged to explore the value of completing a dual major with their advisor or with the chair of the English Department.

Department of Geography and Environmental Planning

Professors: DILISIO, HADDOCK, (Chair); McKIM, MORGAN, SCOTT
Associate Professors: BARNES, da SILVA,
Assistant Professors: HAYUK, STEVENSON, THOMPSON
Adjunct Faculty: ARMACOST, BOAS, CANTER, CULLISON,
 GOODMAN, JOHNSON, MANNS, SCHUPPLE, SHIMSHAK, STAHL,
 TURNER

OFFICE

Linthicum Hall, Room 20, (410) 830-2973

PROGRAMS OF THE DEPARTMENT

The Department of Geography and Environmental Planning offers the following programs: the *major in Geography*, the *minor in Geography*, the *Master of Arts in Geography and Environmental Planning*, the *Master in Education with an emphasis in Geography*. For more information about the graduate programs, consult the *Graduate Catalog*.

The geography/environmental planning major is designed as a liberal arts program that explores how geographers carefully observe and measure human uses of the earth under diverse combinations of natural and cultural environments. Such academic preparation facilitates understanding of the changing world and its past.

Students are prepared in the program for careers in business, management, governmental service, education, planning, public affairs, and other professions as well as graduate school.

DOUBLE MAJORS

The department has established cooperative programs with the departments of Economics, Political Science, and Sociology, which make it possible for a student to attain majors in both geography and one of these other disciplines. For further information contact the Geography and Environmental Planning Department or one of the cooperating departments indicated above.

MAJOR IN GEOGRAPHY

A Geography major must complete a minimum of 36 semester hours in geography courses. Of these 36 hours, 15 hours of **Core Courses** are required plus 6 hours of **Prescribed Group Courses**. The remaining 15 semester hours in the major are selected from 200-400 level geography **Electives** reflecting the student's areas of interest (a maximum of 6 hours of the core may be at the 200 level).

Core Requirements (15 credits)

GEOG 101	Physical geography (3)
GEOG 109	Human Geography (3) or GEOG 102 (3), or 105 (3), or 110
GEOG 221	Interpretation of Maps (3)
GEOG 375	Quantitative Methods in Geography (3)
GEOG 401	Growth of Geographic Thought (3)

Group Requirements (6 credits)

Majors must select at least *one* techniques course and at least *one* regional course. These courses may be selected from the following:

Technical Courses

(Select at least one)

GEOG 321	Interpretation of Aerial Photographs (3)
GEOG 323	Cartography and Graphics I (3)
GEOG 473	Topics: Computer Mapping (3)

Regional Courses

(Select at least one)

GEOG 420	Geography of Anglo American (3)
GEOG 423	Geography of Maryland (3)
GEOG 431	Geography of Africa (3)

GEOG 424	Historical Geography of Atlantic Canada (3)
GEOG 443	Geography of East Asia (3)
GEOG 445	Geography of South & Southeast Asia (3)
GEOG 447	Geography of the Middle East (3)
GEOG 448	Conflict in Ireland (3)
GEOG 451	Geography of Europe (3)
GEOG 453	Geography of the former U.S.S.R. (3)
GEOG 461	Geography of Latin America (3)

MINOR IN GEOGRAPHY

Students minoring in Geography must complete 18 credit hours in geography and environmental planning courses. Six credit hours must be at the 100-200 level, and 12 credit hours from the 300-400 level. A grade of "C" or higher is required in all courses in the minor.

GEOGRAPHY SECONDARY EDUCATION PROGRAM

Required in Major (36 hours): Lower Division (100s-200's) courses (9-15); Upper Division (300's-400's) courses (21-27), at least 12 hours of which must be courses designated as systematic or technique courses.

Required in Related Subjects (33 hours): History courses: HIST 145, HIST 146, HIST 101 plus 6 hours of history electives; Political Science: POSC 103; Sociology: SOCI 101; Economics: ECON 201 and ECON 202; Anthropology: either ANTH 207, ANTH 208, or ANTH 209; and a specified Topics in Social Science course.

TRANSFER CREDIT POLICY

Geography majors may transfer up to 12 hours toward a major and must earn 21 upper-division credits at Towson.

Geography minors may transfer up to six hours toward a minor and must earn 12 upper-division credits at Towson.

SPECIAL DEPARTMENTAL PROGRAMS

The department sponsors the Beta Delta Chapter of Gamma Theta Upsilon, an international geography honorary society. GTU holds lectures, and presents films and speakers on topics in geography and planning. All Geography majors are welcome to join.

The department offers internships through the Internship/Cooperative Education Office. An annual Careers Day is held for Geography majors seeking employment.

Travel studies are available during the minimester and summer to U.S. and foreign locations.

The National Council for Geographic Education awards are given to academically outstanding graduating majors.

Department Honors

An evening honors banquet is held every spring to recognize outstanding graduate and undergraduate majors in geography. New members of Gamma Theta Upsilon are inducted, and a special award is given to an outstanding alumnus of the department.

Careers in Geography

Faculty of the department are active in career advising. Occasional careers days are held and the department participates in a regional network of career advising in geography. Graduates of the department are currently employed in a wide array of jobs as teachers, professors, meteorologists, intelligence analysts with department of Defense, cartographers, planners, statisticians, travels agents, environmental engineers, and much more.

GRADUATE PROGRAM

The master of arts degree program in Geography and Environmental Planning is designed to prepare students for doctoral programs as well as for career opportunities in private business and public agencies. The program is oriented toward applied geography and presents possibilities for an emphasis in the following areas: urban and regional planning, urban studies, public policy issues, physical geography, environmental assessment, energy resources, cultural and historical

geography, medical geography, population, area studies, cartography, and geographic information systems.

Graduate students in Geography and Environmental Planning are encouraged to take pertinent coursework in other departments. The student may pursue either the Thesis Program (30 credits and a 6-credit thesis) or the Non-Thesis Program (36 credits). Detailed information is given in the *Graduate Catalog*.



Department of History

Professors: ESSLINGER, HAEGER, HIRSCHMANN, K. LAREW, D. MARTIN, McWILLIAMS, PIOTROWSKI, RIVERS, RYON, SCHOLNICK, VAN OSDELL, (*Chair*): WHITMAN

Associate Professors: GISSENDANNER, PINEO, ROMERO

Assistant Professors: ELDRIDGE, KERR

Instructor: JOHNSON

Adjunct Faculty: BLUMBERG, BRUMFIELD, CALDERHEAD, M.

LAREW, LEVIN, MANCINI, SELLER

OFFICE

Linthicum Hall, Room 119F, (410) 830-2923

PROGRAMS OF THE DEPARTMENT

The Department of History offers the following programs: the *major in History*; the *History Secondary Education Major*, for students planning to teach history at the secondary level; and the *minor in History*. Each of these programs encourages students to explore the study of history in depth. Such investigation leads to an appreciation of the structure and function of the discipline, and prepares the student for teaching, for graduate work, and for the study of law, theology, archival management, library science, historical preservation and museology. Skills, as well as historical knowledge acquired through the study of the discipline, may also lead to career opportunities in public history, federal, state, local government, and in business and industry. Students may opt for more career flexibility by choosing double majors or by combining a History minor: history and art, history and English, history and economics, history and business, history and communications, for example. History majors and minors are also expected to take correlative courses that broaden their academic background and offer valuable insights into their subject. The Department of History also strongly recommends the completion of the intermediate level of a foreign language. The department offers courses in the fields of American, European, Asian, African, and Latin American history. The offerings are varied. Some courses are chronological, topical or national in scope. Others are in women's, ethnic, business, social, cultural or political history. All courses offered encourage an appreciation of the historical past through lecture/discussion, reading, analysis, and writing. Since history explores all aspects of human endeavor, history courses touch upon the insights of all disciplines from the historical perspective.

The Internship is a practical application of historical knowledge and skill. The Internship may be taken at institutions such as the Maryland Historical Society, Baltimore City Archives, Baltimore Industrial Museum, Jewish Historical Society, or Towson University Archives.

The department participates in interdisciplinary programs such as International Relations, Social Science, the minor in Jewish Studies, and in Interdisciplinary Studies concentrations in American Studies, African-American Studies, Comparative Ethnic Studies, Women's Studies, Religious Studies, Latin American Studies, Asian Studies, and Medieval and Renaissance Studies.

MAJOR IN HISTORY

In addition to the General Education requirements, History majors are required to complete 39 credits with a grade "C" or higher. The Bachelor of Arts degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate courses (or their equivalent) of a modern foreign language.

Requirements for the Major

Required Courses (18 credits)

HIST 101 Introduction to Ancient Civilization (3)

HIST 145 History of the United States to the Mid-Nineteenth Century (3)

HIST 146 History of the United States Since the Mid-Nineteenth Century (3)

HIST 241 History of European Civilization Through the Seventeenth Century (3)

HIST 242 History of European Civilization From the Seventeenth Century (3)

or

HIST 243 Honors History of European Civilization from the Seventeenth Century (3)

HIST 300 Introduction to Historical Study (3)

Electives (21 credits)

Students must complete 21 credits of electives offered by the department, at least 15 of which must be in upper-division courses. Within the 21 credits of electives, there must be at least one three credit course each in American and European history. Nine credit hours must be taken in Asian, African, Latin American, or World history. No more than two upper-division courses may be taken with the same instructor (Seminar, HIST 300, Directed Reading, Directed Research, Colloquium, and Travel and Study are excepted).

MINOR IN HISTORY

History minors are required to complete 24 credits with a grade of "C" or higher from among the following courses.

Requirements for the Minor

Required Courses (6 credits)

HIST 300 Introduction to Historical Study (3)

One of the following

HIST 107 Introduction to History of Islamic Civilization (3)

HIST 109 Introduction to the Civilization of India (3)

HIST 115 Introduction to East Asian Civilizations

HIST 121 Latin America: Colonial Period (3)

HIST 122 Latin America: National Period (3)

HIST 135 African History and Culture (3)

Lower-Division History Electives (9 credits)

Upper-Division History Electives (9 credits)

(Excluding HIST 300 Introduction to Historical Study)

No more than two upper-division courses may be taken with the same instructor. (HIST 300 is excepted.) Seminar, Directed Reading, Directed Research, Colloquium, and Travel Study may not be taken for history minor requirements.

HISTORY: SECONDARY EDUCATION

History majors may wish to obtain certification to teach history at the secondary level. Students in this Secondary Education program receive certification to teach in Maryland upon graduation. See Secondary Education Department Requirements.

In addition to the General Education requirements, and the requirements specified by the Department of Secondary Education, students must complete 54 credits with a grade of "C" or higher from among the courses listed below. Of the 54 credits, 18 must be completed in the required history courses, and 15 in social science courses before Student Teaching.

Requirements for the Major

Required Courses in History (21 credits)

HIST 145 History of the United States to the Mid-Nineteenth Century (3)

HIST 146 History of the United States Since the Mid-Nineteenth Century (3)

HIST 241 History of European Civilization Through the Seventeenth Century (3)

HIST 242 History of European Civilization From the Seventeenth Century (3)

or

HIST 243 Honors History of European Civilization from the Seventeenth Century (3)

HIST 300 Introduction to Historical Study (3)

Two of the following

- African History Course (3)
- Asian History Course (3)
- Latin-American History Course (3)
- World History Course (3)

History Electives (9 credits)

Students must complete nine credits of electives offered by the department, at least 6 of which must be in courses at the 300-400 level.

Required Courses in Social Sciences (24 credits)

- ECON 201 Microeconomic Principles (3)
- ECON 202 Macroeconomic Principles (3)
- GENL 401 Topics in Social Science (3)
- SOCI 101 Introduction to Sociology (3)
- POSC 103 American National Government

One of the following

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 105 Geography of International Affairs
- GEOG 109 Introduction to Human Geography (3)

One of the following

- POSC 101 Introduction to Political Science (3)
- POSC 107 Introduction to International Relations (3)
- POSC 137 Governments of the World (3)
- POSC 207 State Government (3)

One of the following

- ANTH 207 Cultural Anthropology (3)
- ANTH 209 American Culture (3)

SPECIAL RECOMMENDATIONS FOR MAJORS AND MINORS

Students must declare their majors and minors in the History Department. The major or minor should be declared during the second semester of the freshman year or at the beginning of the sophomore year. Students will be given *major/minor forms listing additional rules for a History major/minor*. They will be required also to select an academic advisor who will help in preparing a program of courses. Students should consult their advisors regularly. Students also must update their records each semester. A liberal arts History minor who wishes to student teach must have completed 15 credits of the required courses in history.

TRANSFER CREDIT POLICY

No more than 18 credits in history will be accepted toward a major or a minor from a regionally accredited four year college. No more than 12 lower-division credits in history will be accepted toward a major or a minor from a regionally accredited two year college. The 12 credits must be in lower-division courses which have Towson equivalents at the 100-200 level.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The Department of History awards credit through the Advanced Placement program of the university. The department also offers credit for lower-division courses, and for upper-division courses upon appeal, through the Credit for Prior Learning program. Students applying for credit under this program complete a departmental examination, an interview, and a paper or book review in the field.

DEPARTMENTAL HONORS, ACTIVITIES

The department offers an honors program in History. Eligibility requirements and rules governing the departmental honors programs are described elsewhere in this *Catalog*. Students interested in the history honors program should consult their advisor and their chair of the department no later than the first semester of their junior year.

The department sponsors the Theta Beta Chapter of the national history honor society, Phi Alpha Theta. The society presents lectures,

films, and other programs. Students may inquire about membership requirements at the office of the Department of History.

The department awards at graduation each year the Medal of the Daughters of American Colonists, presented by the Cecilius Calvert Chapter of that organization and the Disabled American Veterans Prize in History.

The Mary Catherine Kahl Prize is awarded annually to a History major or minor of outstanding promise who has not yet graduated. An essay in History written by the respective nominees is submitted as an integral part of the Prize competition.

The Arnold Blumberg Prize is awarded annually to the senior History major who has compiled the most outstanding record in the field of European History.

Each year, under an endowment established to honor Professor Herbert Duane Andrews, an outstanding scholar will be invited to lecture at the university. The lecture will emphasize scholarly research which demonstrates the integration of History with other disciplines or which utilizes newer methodologies to enhance understanding of traditional areas of specialization.

The department also offers travel-study courses that in the past have introduced students to China, Japan, Mexico and several European countries.

Interdisciplinary Studies

OFFICE

Linthicum Hall, Room 9, (410) 830-2330

THE PROGRAM

The Interdisciplinary Studies major provides students with the opportunity to pursue a program of study that is currently unobtainable through any single discipline at Towson University. The major offers students two alternatives: (1) formally-designed thematic options (concentrations and tracks) and (2) individually-designed thematic options.

The formally-designed thematic options have been created by interdisciplinary faculty committees under a *Thematic Option* alternative. Under the formally-designed programs, students are advised by either the coordinator of the concentration or by a member of its advisory committee. Currently, 12 formally-designed thematic options are offered at Towson: African-American Studies, American Studies, Asian Studies, Comparative Ethnic Studies, Gay & Lesbian Studies, Jewish Studies, Latin American Studies, Law Enforcement, Medieval and Renaissance Studies, and Religious Studies. Students interested in any of these formally-designed thematic options should contact that option's coordinator.

When none of the traditional majors or these formally-designed thematic options meets the student's needs, then the student may pursue the second Interdisciplinary Studies alternative: the individually-designed thematic option. These thematic options provide Towson University students with the opportunity to pursue a major that is available at other colleges or universities but that is not available currently at Towson. Examples of such majors include Nature Writing, Recreation Management, and Deaf Studies.

Students interested in the individually-designed option should first consult catalogs from universities offering their desired major to determine if Towson University offers the necessary coursework to complete the major. Then the student should meet with a faculty member or members who have expertise in the student's proposed area of study. With the help of such a faculty member, the student must submit a program of study. The program of study must include a name for the concentration (e.g. Nature Writing), a description of the goals of the concentration, and the requirements of the concentration (i.e., a list of courses to be completed). See the 10 formally-designed thematic options on the following pages for examples of names, descriptions, and requirements of approved programs of study. Contact the Coordinator of Interdisciplinary Studies for further information and for help in finding a faculty advisor or advisors with relevant expertise. All individually-designed programs must be approved by a faculty advisor and by the Coordinator of Interdisciplinary Studies. No unapproved program of study may be used for graduation.

Regardless if the student selects a formally-designed or an individually-designed thematic option, all Interdisciplinary Studies majors must complete a minimum of 45 upper-division credit hours (300-400 level). All 45 upper-division hours must be completed with a grade of "C" or better.

INDIVIDUALLY-DESIGNED CORE THEMATIC OPTION

Students pursuing the individually-designed thematic option must specify whether they intend to do so under Core Major A, Core Major B, or Thematic Option. These three options differ in terms of how the required 45 upper-division credit hours are distributed through the liberal arts and sciences disciplines. Regardless of which option the student selects, please note that the majority (Thematic Option) or all (Core Major A and Core Major B) of the required 45 credit hours must be related to a common theme.

Core Major A

Core Major A is constructed around a "core" discipline in the traditional liberal arts and sciences fields. Students must meet the

following requirements for this major.

1. The student must take a minimum of 45 semester hours of upper-division course work in the liberal arts and sciences departments of art, biology, chemistry, dance, English, history, modern language, mathematics, music, philosophy, physics and theatre. These 45 hours must include work from a minimum of four different departments. Eighteen credits must be from the arts and 18 credits from the sciences (mathematics being considered a science).
2. At least 15, but no more than 21, of the 45 upper-division hours must come from one discipline which shall serve as the "core" discipline in the student program.

Core Major B

Core Major B is constructed around a "core" discipline in Interdisciplinary Studies, which incorporates all of the arts and sciences.

1. From the arts and sciences, which are construed to be the following: art, biology, chemistry, dance, economics, English, geography, history, modern languages, mathematics, music, philosophy, physics, political science, psychology, sociology, speech and theatre-the student must take a minimum of 45 semester hours of upper-division course work. With the approval of the student's advisor and the Interdisciplinary Studies coordinator, courses in departments not listed above may be allowed if these courses are needed to complement the student's program.
2. At least 15, but no more than 21, of the 45 upper-division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

Thematic Options

A student may fulfill the requirements for either Major A or Major B by substituting a thematic plan for the "core" discipline. The thematic plan must be approved by the student's advisor and the Interdisciplinary Studies coordinator.

Except for the following, the requirements will be the same as for Major A or B:

1. A minimum of 18, but not more than 36, of the 45 upper-division hours must relate specifically to a chosen topic or theme.
2. All course work must be on an upper-division level unless the faculty advisor and the Interdisciplinary Studies Coordinator approve the inclusion of some particularly significant course work at the lower-division level. For example, a course important to the student's theme may exist only at the lower-division level.

FORMALLY-DESIGNED THEMATIC OPTIONS

The following formally-designed thematic options are available. Requirements for each theme are listed below.

Concentrations

African-American Studies
American Studies
Asian Studies
Comparative Ethnic Studies
Gay & Lesbian Studies
Jewish Studies
Latin American Studies
Law Enforcement
Medieval and Renaissance Studies
Religious Studies

Tracks

Animal Behavior
Molecular Biology

Pre-Professional Preparation

Pre-Law Program

AFRICAN-AMERICAN STUDIES

Advisory Committee: GISSENDANNER (*English, Coordinator*); MURUNGI, (*Philosophy*); CLAY (*Minority Affairs*); GREENE (*English*)

OFFICE

Linthicum Hall, Room 201J, (410) 830-2863

The Program

The African-American Studies program offers the student the opportunity to study in-depth the historical and cultural existence of African-Americans by examining the unacknowledged roles in American society, and the presence and importance of the Black aesthetic culturally, socially, politically, and economically. An interdisciplinary program concentrating mainly in the humanities, the curriculum of the African-American Studies program is subject to review and flexibility, as courses may be added or subtracted with the permission of the Advisory Committee.

Students may choose a concentration in the program, select courses to structure a concentration within the Interdisciplinary Studies Program, or simply take courses as electives.

New courses, special topics, and minimester courses may be accepted toward the major with approval of the committee.

For further information, please contact one of the advisors.

Requirements for the Concentration

A. The student must satisfy General Education requirements, with the following courses either recommend or required:

ENGL 230 Main Currents in American Literature (recommended)
II.B.1. (3)

HIST 146 U.S. History Since Mid-19th Century (required)
II.B.1 (3)

NOTE: Only one of these courses can be counted for GenEd II.B.1, though both are recommended for the concentration.

SOCI 101 Introduction to Sociology (required) II.B.2 (3)

B. To declare the concentration the student must be at least a sophomore with a 2.00 QPA.

C. The student must take a minimum of 45 semester hours of upper-division work from the Arts and Sciences: art, biology, chemistry, economics, geography, history, modern mathematics, music, philosophy, physics, political science, psychology, sociology, speech and drama.

D. Students must complete 15 hours from the following.

ENGL 233 Survey of African-American Literature (3)
ENGL 234 Major Writers in African-American Literature (3)
ENGL 347 World Literature Written in English
HIST 133 History of Africa: Earliest Times to the Nineteenth Century (3)
HIST 134 History of Africa: Nineteenth Century to the Present (3)
HIST 145 History of U.S. to Mid-19th Century
HIST 146 History of U.S. Since Mid-19th Century
HIST 381 African-American History to the Mid-Nineteenth Century (3)
HIST 484 Historical Themes: Minority Women in the U.S.

E. Students must complete 15 hours from the following courses.

One of the following

POSC 341 African Government & Politics (3)
POSC 435 Africa in World Politics (3)
GEOG 431 The Geography of Africa (3)

Two of the following

ENGL 477 Literature of Black America (3)
SOCI 341 Class, Status, and Power (3)
SOCI 343 Minority Groups (3)
SOCI 370 Topics in Soci: Black-White Relations (3)
SOCI 241 Blacks in America: Myths and Realities (3)

Two of the following

ART 304 African-American Art (3)
ECON 351 Urban Economics (3)
GENL 241 The Ethnic Experience in America (3)
HIST 375 The City in American History (3)
PHIL 251 Contemporary African-American Thought (3)
PHIL 270-279 Philosophical Perspectives (3)
POSC 305 Urban Government and Politics (3)
POSC 341 African Government and Politics (3)
POSC 435 Africa in World Politics (3)

SOCI 327 Urban Sociology (3)
SOCI 341 Class, Status, and Power (3)
SOCI 343 Minority Groups (3)
SOCI 370 Topics in Sociology (3)
(Black-White Relations-when offered)

AMERICAN STUDIES

Advisory Committee: DOUGLAS, (*English, Coordinator*); FISHER, (*Anthropology*); ESSLINGER, (*History*); FRIEDMAN, (*English*); MARTIN, (*History*); RIVERS, (*History*); WOOD, (*English*)

OFFICE

Linthicum Hall, Room 218G, (410) 830-2943

The Program

The American Studies concentration is an interdisciplinary program that allows a student to take courses in different academic departments while still focusing on the concept of American culture. The American Studies approach stresses the inter-relatedness of history, literature, the fine and vernacular arts, popular culture, technology and folkways. Students examine American institutions, ideas, and material forms in order to better understand their past and shape their future.

The major is designed for those students who may wish to have careers in fields such as teaching, museum work, law, journalism, and the like where a broad knowledge of American history and culture is desirable.

Those students interested in material culture or museum work have the opportunity to receive credit for internships at a number of local museums or historical sites.

Requirements for the Concentration

I. Lower-division requirements: 18 credits from the following list.

AMST 201 Introduction to American Studies (3)
ANTH 207 Cultural Anthropology (3)
ENGL 231 American Literature to 1865 (3)
ENGL 232 American Literature Since 1865 (3)
ENGL 233 Survey of Afro-American Literature (3)
ENGL 235 Ethnic American Literature (3)
GEOG 109 Introduction to Human Geography (3)
HIST 145 History of U.S. to Mid 19-Century (3)
HIST 146 History of U.S. Since Mid-19th Century (3)
HIST 147 History of Women in America (3)
POSC 103 American National Government (3)

II. Upper-division requirements: 30 credits from the following list.*
No more than 12 credits in any department.

Anthropology

ANTH 365 North American Indians (3)
ANTH 383 North American Archeology (3)
ANTH 385 Archeology of the American Southwest (3)

American Studies

AMST 370 Topics in American Studies (3)
AMST 491 Directed Readings in American Studies (3)
AMST 497 Practicum in Material Culture (3)

Art

ART 322 American Art (3)

English

ENGL 331 American Drama (3)
ENGL 353 History of American English (3)
ENGL 431 Literature of the American Romantic Period (3)
ENGL 432 Literature of the American Realistic Period (3)
ENGL 433 American Short Story (3)
ENGL 435 Development of the American Novel: 19th Century (3)
ENGL 436 Development of the American Novel: 20th Century (3)
ENGL 437 American Poetry Through Frost (3)
ENGL 438 Modern American Poetry (3)
ENGL 473 Topics in American Literature (3)
ENGL 477 Black Women Novelists (3)

Geography

GEOG 420 Geography of Anglo-America (3)
GEOG 423 Geography of Maryland (3)

History

- HIST 331 American Military History 1898-1945 (3)
 HIST 345 The American Colonies (3)
 HIST 346 American Revolutionary Period (3)
 HIST 347 American Early National Period (3)
 HIST 348 The Jacksonian Era (3)
 HIST 349 Civil War (3)
 HIST 350 Era of Reconstruction (3)
 HIST 351 Age of Enterprise (3)
 HIST 352 Age of Reform (3)
 HIST 359 The FDR Era (3)
 HIST 360 Recent American History (3)
 HIST 363 Social History of U.S. to 1865 (3)
 HIST 364 Social History of U.S. Since 1865 (3)
 HIST 366 History of American Business (3)
 HIST 367 Development of the U.S. Constitution: 1787-1941 (3)
 HIST 368 The Bill of Rights and the Constitution: 1941 to the Present (3)
 HIST 370 Diplomatic History of U.S. Since 1900 (3)
 HIST 373 Early American Frontier (3)
 HIST 374 Far Western Frontier (3)
 HIST 375 City in American History (3)
 HIST 379 History of Native Americans: The East (3)
 HIST 380 History of Native Americans: The West (3)
 HIST 381 African-American History to the Mid-Nineteenth Century (3)
 HIST 385 American Labor (3)
 HIST 397 History of Maryland from Colonial Times to Present (3)

Political Science

- POSC 305 Urban Government and Politics (3)
 POSC 355 The Latin American Policy of the U.S. (3)
 POSC 381 The Presidency (3)
 POSC 383 Congress (3)
 POSC 417 American Political Parties (3)
 POSC 418 Constitutional Law (3)
 POSC 432 US-Soviet Relations (3)
 POSC 439 US Foreign Policy in South East Asia (3)
 POSC 441 Contemporary US-Western European Relations (3)
 POSC 445 US Foreign Policy in South Asia (3)
 POSC 451 Politics and Religion in the U.S.A. (3)
 POSC 491 Seminar: Contemporary U.S. Foreign Policy (3)

Philosophy

- PHIL 326 American Philosophy (3)

Sociology

- SOCI 329 Demography (3)
 SOCI 356 Corrections in America (3)

Women's Studies

- WMST 337 Feminism

III. 15 additional upper-division credits from any arts and sciences disciplines are needed to fulfill the Interdisciplinary Studies requirement of 45 upper-division credits.

*Other courses relating to American culture may be taken with the approval of the coordinator.

ANIMAL BEHAVIOR

Advisory Committee: FIGLER, (Psychology); FORESTER, (Biology); JOHNSON, L., (Biology); JOHNSON, C., (Psychology); NELSON, (Biology); PETRI, (Psychology); RABIN, (Psychology); ROBINSON, (Biology); SCARBROUGH, (Biology); SCULLY, (Biology, Coordinator); WALKER, (Psychology)

OFFICE

Smith Hall, Room 261, (410) 830-3012

The Program

The study of animal behavior has received an increasing amount of attention from the public due to the number of zoological parks and aquaria across the country, as well as presentations in the media concerning animal behavior and the developing field of sociobiology.

The thematic option in Animal Behavior is designed to offer a concentrated animal behavior and the developing field of sociobiology. The thematic option in Animal Behavior is designed to offer a concentrated education in this multifaceted discipline. As part of its overall goal, this program undertakes the scientific study of animal behavior as a means for establishing a firm basis for understanding the underlying principles unifying this discipline. The program is administered by the Institute of Animal Behavior, which includes faculty from the departments of Biological Sciences and Psychology at Towson University, and adjunct faculty from other institutions. Students who complete this program may be qualified for staff positions at aquaria, nature centers, zoological parks, or to pursue careers in freelance writing about animal behavior. Students who are considering post-baccalaureate studies in disciplines such as ethology, comparative psychology, behavioral biology, etc., should discuss this option with their advisor early in the program, since most graduate programs will require additional courses in Biology, Psychology, and ancillary subjects.

Requirements for the Track

The Animal Behavior track requires students to complete 45 credit hours with a grade of "C" or better. If 45 hours have not been reached following completion of the required courses, the additional course or courses must be taken from the Biology or Psychology electives list.

Required Courses (31-32 credits)

- BIOL 110 Contemporary General Biology (4)
 PSYC 101 Introduction to Psychology (3)
 BIOL 207 General Zoology (4)
 PSYC 212 Behavioral Statistics (4)
 BIOL 371 Animal Behavior (4)
 PSYC 460 Ethology and Comparative Psychology (3)
 PSYC 314 Experimental Psychology (4)
 or
 BIOL 381 Biological Literature (3)
 BIOL 413 Evolution (3)
 PSYC 491 Independent Research in psychology (3)#
 or
 BIOL 491 Independent Research in Biology (3)#

Biology Electives

*A minimum of two courses from the following**

- BIOL 351 Field and Systematic Vertebrate Zoology (4)
 BIOL 353 Invertebrate Zoology (4)
 BIOL 367 Endocrinology (3)
 BIOL 402 General Ecology (4)
 BIOL 456 Ornithology (4)
 BIOL 458 Mammalogy (4)
 BIOL 461 Entomology (4)
 BIOL 465 Mammalian Physiology (4)
 BIOL 467 Herpetology (4)
 BIOL 469 Comparative Animal Physiology (4)
 BIOL 481 Directed Readings in Biology (1-3)#

#Must be approved by Coordinator.

Psychology Electives

*A minimum of two courses from the following**

- PSYC 305 Psychology of Learning (3)
 PSYC 309 Psychopharmacology (3)
 PSYC 315 Motivation (3)
 PSYC 317 Sensation and Perception (3)
 PSYC 341 Environmental Psychology (3)
 PSYC 381 Readings in Psychology (1-3)#
 PSYC 447 Sex Differences: Psychological Perspectives (3)
 PSYC 465 Physiological Psychology (3)
 PSYC 485 Experimental Design (4)
 PSYC 470-479 Current Topics in Psychology#

#Must be approved by Coordinator.

*Students should consult this *Catalog* for course prerequisites and discuss all course selections with their advisors.

ASIAN STUDIES

Advisory Committee: DA SILVA, (*Geography and Environmental Planning*);
HIRSCHMANN, (*History*); KEALEY, (*Philosophy*); LEE, (*Art*);
McWILLIAMS, (*History, Coordinator*)

OFFICE

Linthicum Hall, Room 119N, (410) 830-2905

The Program

The Asian Studies concentration within the Interdisciplinary Studies major is designed to offer students an interdisciplinary program of study of various dimensions of the Asian world. The student may plan a course of study that concentrates on a particular aspect of Asian civilization or on a particular sub-region of Asia. One might, for example, focus on the art and philosophy of various Asian peoples, or instead, one might choose to concentrate on Chinese (or Indian or Japanese) civilization, studying both the traditional and modern society, its physical setting, its political and economic development, etc. In order to build a sound program of study, which meets both the individual student's needs and the Interdisciplinary Studies requirements, it is essential that the student work closely with his advisor semester by semester in planning his or her program and selecting courses.

A second option open to students interested in specializing in Asian Studies is the International Studies major with a regional specialization.

Requirements for the Concentration

1. Twelve credit hours of a foreign language appropriate to the student's designated area of interest in Asia. In special cases this requirement may be waived, but only with the written permission of the advisory committee. The Asian language courses presently offered at Towson are listed below.
2. A minimum of 30 credit hours selected from the following list of courses, but with courses from at least three departments (in addition to language) represented. Other courses not shown on the list, but which are relevant to Asia (such as directed readings courses and minimester courses), may be accepted with the approval of the advisory committee.

Approved Courses**Art**

- | | |
|---------|----------------------|
| ART 302 | The Art of China (3) |
| ART 303 | The Art of Japan (3) |

Geography

- | | |
|----------|---|
| GEOG 443 | Geography of East Asia (3) |
| GEOG 445 | Geography of South and Southeast Asia (3) |
| GEOG 447 | Geography of the Middle East (3) |

History

- | | |
|----------|---|
| HIST 107 | Introduction to History of Islamic Civilization (3) |
| HIST 109 | Introduction to the Civilization of India (3) |
| HIST 116 | East Asian Civilizations to the 17th Century (3) |
| HIST 111 | Modern East Asia Since the 17th Century (3) |
| HIST 311 | Traditional India: Its Historical Development (3) |
| HIST 312 | History of Modern India (3) |
| HIST 313 | History of Modern Southeast Asia (3) |
| HIST 315 | Imperial China: The Last Dynasty (3) |
| HIST 316 | Revolutionary China (3) |
| HIST 318 | Modern Korea (3) |
| HIST 319 | Japan: 1830-1930 (3) |
| HIST 320 | Japan: 1930-Present (3) |

Language

- | | |
|--------------|--|
| CHNS 101-102 | Elementary Modern Chinese I, II (3, 3) |
| CHNS 201-202 | Chinese Intermediate I, II (3, 3) |
| JPNS 101-102 | Japanese Elements I, II (3, 3) |
| JPNS 201-202 | Japanese Intermediate I, II (3, 3) |

Philosophy-Religion

- | | |
|----------|--------------------------------------|
| PHIL 219 | Introduction to Asian Philosophy (3) |
| PHIL 301 | Philosophies of India (3) |
| PHIL 302 | Philosophies of China and Japan (3) |

PHIL 357

Comparative Religion (3)

Political Science

- | | |
|----------|---|
| POSC 439 | U.S. Foreign Policy in Southeast Asia (3) |
| POSC 445 | U.S. Foreign Policy in South Asia (3) |

Sociology-Anthropology

- | | |
|----------|--------------------------------|
| ANTH 367 | Peoples of The Middle East (3) |
|----------|--------------------------------|

COMPARATIVE ETHNIC STUDIES

Advisory Committee: NICHOLAS, (*Education*); ROTHSTEIN, (*Anthropology*); SCHEPER, (*Sociology*); AVERY, (*English, Coordinator*); GISSENDANNER, (*English*); LEONS, (*Anthropology*); RIES, (*Communication Sciences and Disorders*); Da SILVA, (*Geography*)

OFFICE

Linthicum Hall, Room 219D, (410) 830-2865

The Program

The Comparative Ethnic Studies concentration is an essential part of Towson University's attempt to provide a sound liberal arts and science education to all of its students. It further reflects the goals of the university in providing students with some experience in interdisciplinary courses at upper- and/or lower-division levels. While the Comparative Ethnic Studies program allows students to take courses in several different and distinct academic disciplines, the program stresses the importance of a comparative framework and the value of interdisciplinary approaches to the American ethnic experience. A secondary goal of the program is to provide information to the ethnic groups in the Baltimore metropolitan areas, largely through the publication of a periodic newsletter, *Kaleidoscope*.

The program is designed for two particular groups of students:

1. Students desiring careers in teaching, personnel, human services, social work, criminal justice, law and other professions, for which the Comparative Ethnic Studies major can provide valuable information and insights.
2. Those students who, no matter what their major or career goals, simply wish to have a broader and deeper understanding of the variety of peoples who comprise modern American society.

Requirements for the Concentration**Required Courses (9 credits)**

- | | |
|----------|---------------------------------------|
| ENGL 335 | Ethnic-American Literature (3) |
| GENL 241 | The Ethnic Experience in American (3) |
| SOCI 343 | Minority Groups (3) |

Electives

Students must select 15 hours from these upper-division courses. No more than two courses may be at the 200 level.

- | | |
|-------------|--|
| ANTH 365 | North American Indians (3) |
| ANTH 388 | Peasant Cultures (3) |
| ECED 425 | The Young Black Child in a Multi-Cultural Setting (3) |
| ECON 333 | Economics of Poverty and Discrimination (3) |
| ECON 351 | Urban Economics (3) |
| EDUC 460 | Teaching in a Multi-Cultural/Multi-Ethnic Society (3) |
| ENGL 233 | Survey of African-American Literature (3) |
| ENGL 234 | Major Writers in African-American Literature (3) |
| ENGL 476 | Topics in Multi-Ethnic Literature (3)* |
| ENGL 477 | Topics in Black American Literature (3) |
| GEOG 385 | Population and Settlement (3) |
| HIST 277 | A Survey of Jewish History (3) |
| HIST 375 | The City in American History (3) |
| HIST 379 | History of Native Americans: The East (3) |
| HIST 380 | History of Native Americans: The West (3) |
| HIST 381 | African-American History to the Mid-Nineteenth Century (3) |
| POSC 305 | Urban Government and Politics (3) |
| SOCI 241 | Blacks in America: Myths and Reality (3) |
| SOCI 343 | Minority Groups (3) |
| SOCI 370-79 | Topics in Sociology (3) |
| | (The American Jewish Community When offered) (3) |

Up to seven credits of related language courses at an appropriate level may be applied to the major with the approval of the committee.

*Topics in Multi-Ethnic Literature may be taken only once for credit within 18 hours. However, with permission, it may be taken for major credit twice within 27 hours.

Recommended Courses

ANTH 207	Cultural Anthropology (3)
ENGL 232	Literature Since 1865 (3)
HIST 145	History of U.S. to Mid-Nineteenth Century (3)
HIST 146	History of U.S. Since Mid-Nineteenth Century (3)
HIST 363	Social History of U.S. to 1865 (3)
HIST 364	Social History of U.S. Since 1865 (3)
SOCI 101	Introduction to Sociology (3)
SOCI 329	Demography (3)
SOCI 341	Class, Status and Power (3)

Kaleidoscope

First published in 1974, *Kaleidoscope* is a creation of the Towson University Comparative Ethnic Studies program. This ethnic studies newsletter serves both Towson University and metropolitan Baltimore, by encouraging ethnic activities, projects, and scholarships on and off the campus.

Issued semi-annually, 2,000 copies of the newsletter are distributed to teachers and administrators in Baltimore City and County Public Schools, to area colleges, to Towson faculty and students, to members of Baltimore's ethnic communities and to city and county officials. Copies are also sent to readers around the country and the newsletter's subscription list continues to grow.

Kaleidoscope's content reflects the interests and diversity of its audience. Ethnic book and film reviews have often appeared. Profiles of ethnic individuals and communities, articles about ethnic programs and conferences, news of upcoming community events are regularly featured. Material is submitted by Towson faculty and students, by educators at other institutions, by ethnic organizations, and by interested individuals.

The Minor in Comparative Ethnic Studies

Designed for liberal arts students, the Comparative Ethnic Studies minor provides experience in the field and complements the more traditional majors students have chosen. Although not as comprehensive as the concentration, the minor also offers an interdisciplinary approach and exposure to different cultures in America.

Requirements for the Comparative Ethnic Studies Minor

Students must take 18 or more credits from approved courses. All Ethnic Studies minors must take nine required hours: General Studies 241, The Ethnic Experience in America, English 235, Ethnic American Literature, and Sociology 343, Minority Groups, or History 378, The Immigrant in American History.

An additional nine or more credit hours should be taken from the approved classes listed for the concentration. These electives should be upper division with no more than six hours of electives coming from one discipline.

GAY & LESBIAN STUDIES

Advisory Committee: DAVID BERGMAN, (*English, Chair or Coordinator*); JOAN RABIN, (*Psychology*); CINDY GISSENDANNER, (*History*); DEBORAH SHALLER, (*Writing Lab/English*); BARBARA SLATER, (*Psychology*); JOAN TINKLER, (*English*); GUY WOLF, (*Sociology/Anthropology*); HUNTER O'HARA, (*Early Childhood Ed*)

OFFICE

Linthicum Hall, Room 119N, (410) 830-2905

The Program

The Lesbian and Gay Studies Minor addresses issues of sexual orientation from interdisciplinary and multi cultural perspectives. The growing public visibility and awareness of diverse sexualities and their cultural and political ramifications for individuals, social institutions, and communities is evident in increased media coverage of political activism and debate related to issues of sexual orientation. Lesbian and Gay Studies is a response to these forces in the contemporary world but also represents a growing field of scholarship which is in the forefront of developing theoretical and methodological innovations in interdisciplinary studies. The Lesbian and Gay studies minor aims to give students the critical skills to analyze a wide range of issues including the historical evolution of sexual identities in different cultural settings, the relationship between gender systems and sexual orientation, the development of lesbian and gay cultural institutions, institutionalized forms of heterosexism and homophobia, conflict within and between lesbian and gay communities, and the social and political mobilization of lesbian and gay peoples and their allies in efforts to eliminate discrimination on the basis of sexual orientation.

Rationale for the Minor

TU already has an impressive array of Lesbian and Gay Studies courses in a variety of disciplines. Those of us who teach these courses know that many of our students take several Lesbian and Gay Studies courses over their full course of study. The existence of a Lesbian and Gay Studies minor would allow students who already take a concentration to get formal recognition for their studies and might also encourage students to take one or two more courses in order to get this recognition. The courses that we are proposing as options within the minor are well established and have a good track record in enrollment. The Introduction to Gay and Lesbian Studies courses is on the approved list for General Education credit in the Western Heritage: Pluralism and Diversity category. Thus, we have a course that could well serve as a feeder course for the minor. In general, the student demand for Lesbian and Gay Studies courses has been strong and there is no reason to believe that this will change for the worse in the coming years.

No institution in the UMS currently offers students either a minor or a major in Lesbian and Gay Studies. TU has the opportunity to be a leader in this field. Students in Lesbian and Gay Studies classes at Towson tell their instructors that they were drawn to TU because it offers a wide range of courses in this area. We also teach students from other colleges and universities who take courses here because similar offerings are not available at their home institutions.

The Lesbian and Gay Studies Minor fits with TU's current push to create more interdisciplinary program options for its students. It has the support of the Dean of CLA and of the Provost. Furthermore, this program can be created with virtually no commitment of additional university resources. Faculty are already teaching the courses that make up the minor. The same faculty have been ordering library resources for several years, though the journal and audio-visual holdings could stand to be updated. In other words, this is a win-win situation for the university and its students.

As more employment opportunities become available for college graduates in lesbian and gay organizations, cultural institutions, research centers, and academic programs and in professions that service openly lesbian and gay clientele, employers will increasingly look favorably upon students with expertise in the area of Lesbian and Gay Studies. Thus, the minor would give students who take several courses in this area an opportunity to demonstrate more visibly their readiness to perform jobs that call for awareness of and sensitivity to lesbian and gay issues.

Lesbian and Gay Studies is a recognized academic field with its own conferences and journals. The rapid growth in the number of Ph.D. Dissertations and published works devoted to lesbian and gay topics attests to the growing acceptance and legitimacy accorded to lesbian and gay studies scholarship. By approving a Lesbian and Gay Studies Minor, TU would join other colleges and universities in granting this relatively new field the academic recognition and legitimacy that is

associated with institutionalized programs of study. It would also give TU an edge over its competitors in attracting students who find the existence of this program a strong reason to choose TU and to stay here once admitted.

Educational Objectives

1. To familiarize students with major concepts, theories, substantive findings, and works of fiction and nonfiction in the field of Lesbian and Gay studies.
2. To make students aware of the diversity of the attitudes toward and the experiences of gay men and lesbians in different cultures and historical periods.
3. To examine institutionalized homophobia and heterosexism and their impact on the political, social and economic status of lesbians and gay men.
4. To investigate the relationships between prevailing gender norms and systems and the social construction of heterosexualities and same-sex sexualities and the cultural images associated with them.
5. To examine differences within and between gay and lesbian communities along lines of race, class, gender, ethnicity, age and region and the social and political ramifications of such differences for those communities.
6. To understand the wide range of political strategies used by lesbians and gay men in the past and the present in their struggles against oppression.
7. To trace the historical evolution of sexual identities and the roles of lesbians and gay men in reshaping them.

The Lesbian and Gay Studies minor requires the following:

Required Course

IDIS 102 Introduction to Lesbian and Gay Studies (3)

Electives

Five of the following:

- ANTH 370 Topics in Anthropology: Sexual Orientation in Cross-Cultural Perspective (3)
 HIST 361 Gays and Lesbians in U.S. History (3)
 ENGL 376 Themes in Literature: Gay Themes in American Literature (3)
 PSYC 457 Gender Identity in Transition (3)
 PSYC 4xx Psychology of Lesbian Culture (3)
 WMST 338 Women and Sexuality

JEWISH STUDIES

Advisory Committee: AVERY (English, Chairperson); BLUMBERG (History, Emeritus); BRUMFIELD (History); EDELSTEIN (Sociology); FRIEDMAN (English); KAPLON (Mathematics); SCHOLNICK (History); SIEGEL (Mathematics); VOGELSTEIN (Speech and Mass Communication); WHITMAN (History, Co-Chairperson)

The Program

Drawing on the resources of six different departments, the Jewish Studies minor is designed for students whose vocational and/or intellectual interest centers on another discipline, but who would also like to deepen their knowledge of Jewish history, literature, and religion in an organized, directed manner. Although not as comprehensive as a concentration, the minor offers an interdisciplinary approach to the Jewish experience, set in the wider context of ancient and modern society.

Despite its course concentration in the College of Liberal Arts, students from throughout the University are clearly qualified for and are welcome to undertake the minor.

The Jewish Studies minor will be subject to revision and expansion in the future, as courses are evaluated by a permanent Advisory Committee which will set up to monitor the program. New courses, special topics, or minimester courses may be accepted for the minor, or counted toward it, with the approval of the Advisory Committee.

Requirements for the Minor

A minimum of 21 hours is required

The following courses must be taken: 6 hours

- HIST 277 A Survey of Jewish History
 ENGL 237 Nineteenth and Twentieth Century Jewish Literature

Electives 15 hours - 12 Upper Level

No more than 2 courses may be taken in any discipline

English

- ENGL 235 Ethnic-American Literature
 ENGL 341 History and Literature of the Old Testament
 ENGL 476 Topics in Multi-Ethnic Literature

Geography

- GEOG 447 Geography of the Middle East

History

- HIST 275 Ancient Israel
 HIST 484 Topics in History (when applicable to Jewish Studies)

Philosophy

- PHIL 105 Introduction to the Study of Religion
 PHIL 206 Judaism, Christianity, and Islam
 PHIL 353 Philosophy of Religion
 PHIL 357 Comparative Religions

Sociology and Anthropology

- ANTH 367 Peoples of the Middle East
 SOCI 343 Minority Groups

Hebrew

- HEB 101-102

Other courses related to Jewish Studies may be elected with the permission of the Jewish Studies Advisors.

LATIN AMERICAN STUDIES

Advisory Committee: LEONS (Anthropology, Coordinator); DENT (Political Science); HADDOCK (Geography); LIMA (Modern Language); PINEO (History)

OFFICE

Linthicum Hall, Room 219D, (410) 830-2865

The Program

The Latin American Studies concentration within the Interdisciplinary studies major allows the student to approach the study of Latin America as an area from an interdisciplinary perspective. It would be an appropriate concentration for those intending to pursue Latin American Studies or Spanish on the graduate level, for those anticipating living or working in Latin America, or for those wishing to acquire expertise in Latin America for a career in business or government.

The Latin American Studies program is administered by the Latin American Studies committee. The student should select one of the members of the committee as an advisor.

Requirements for the Concentration

1. Spanish Composition and Conversation (SPAN 301) or its equivalent.
2. Thirty credits chosen from the following Latin American related courses. The courses must be selected from at least four of the five departments represented. The student is reminded that a total of 45 upper-division hours are required for the completion of an Interdisciplinary Studies major. All course work must be completed with a grade of "C" or better.

Approved Courses**Spanish**

- SPAN 302 Composition & Conversation II (3)
 SPAN 312 Culture & Civilization of the Spanish-Speaking Peoples II (3)
 SPAN 419 Literatures of the Cuban Revolution (3)
 SPAN 437 Romanticism in Spanish American Literature (3)
 SPAN 439 Literary Movements in Spanish American Literature (3)
 SPAN 444 Twentieth Century Spanish American Literature (3)
 SPAN 470 Special Topics (when concerned with Latin America) (3)
 SPAN 491 Directed Readings in Spanish Literature
 (when concerned with Spanish-American topics) (1-3)
 SPAN 492 Directed Readings in Spanish Literature
 (when concerned with Spanish-American topics) (1-3)

Anthropology

- ANTH 366 South American Indians (3)
 ANTH 369 Tradition and Revolution in Latin American Society (3)
 ANTH 370 Topics in Anthropology (3) (when concerned with Latin America)
 ANTH 495 Independent Research (3)

Political Science

- POSC 351 Government & Politics of Latin America (3)
 POSC 355 Latin American Policy of the U.S. (3)
 POSC 385 Model Organization of American States (3)
 POSC 437 Castro and the Cuban Revolution (3)
 POSC 490 Independent Study (3) (when concerned with Latin America)

Geography

- GEOG 495 Directed Readings in Geography (3) (when concerned with Latin America)

History

- HIST 121 Latin America: Colonial Period (3)
 HIST 122 Latin America: National Period (3)
 HIST 307 The Andean Republics (3)
 HIST 321 History of Mexico: Colonial Period (3)
 HIST 322 History of Mexico: National Period (3)

LAW ENFORCEMENT

Advisory Committee: TOLAND, (Sociology, Coordinator); ESSLINGER, (History); FRUCHTMAN, (Political Science).

OFFICE

Linthicum Hall, Room 318A, (410) 830-2933

The Program

The Police Foundation defines law enforcement as "the job of defining that delicate balance between liberty and order, of applying wisdom, of being flexible, of using discretion and, most particularly, of seeing the mundane and trivial in a broader legal and moral context." The most effective way of preparing one to meet this assignment is through a broad liberal arts education. The emphasis on education rather than training is acquired in police academics and in-service programs. Community colleges also offer vocationally-oriented courses, and students who wish to obtain this background should attend a community college before coming to Towson. Community college transfer students are advised to complete the required introductory courses in sociology, psychology, political science, history and health. Law enforcement courses taken at a community college (e.g., criminal investigation) will usually transfer as general electives.

Requirements for the Concentration

A total of 45 upper-division credit hours are required to complete the Interdisciplinary Studies major. The law enforcement curriculum consists of 36 credit hours of required courses.

Required Courses**Sociology**

Nine credits (beyond Introduction to Sociology, SOCI 101) including:

- SOCI 353 Criminology (3)
 SOCI 355 Juvenile Delinquency (3) and one of the following:

- SOCI 343 Minority Groups (3)
 SOCI 351 Social Deviance (3)
 *WRIT 354 Introduction to Criminal Justice (3)
 SOCI 356 Corrections in America (3)
 SOCI 491 Internship in Sociology (3)

Psychology

Nine credits (beyond General Psychology, PSYC.101) chosen from the following:

- PSYC 203 Human Development (3)
 PSYC 325 Social Psychology (3)
 PSYC 350 Personality (3)
 PSYC 361 Abnormal Psychology (3)
 PSYC 404 Adolescent Psychology (3)

History

Six credits (beyond History of the U.S. to the Mid-19th Century, HIST 145; or History of the U.S. Since the Mid-19th Century, HIST 146) chosen from the following:

- HIST 363 Social History of the U.S. to 1865 (3)
 HIST 364 Social History of the U.S. Since 1865 (3)
 HIST 367 The Development of the U.S. Constitution (3)
 HIST 368 The U.S. Constitution and Civil Liberties (3)
 HIST 375 The City in American History (3)
 HIST 381 African-American History to the Mid-Nineteenth Century (3)
 HIST 382 African-American History from the Mid-Nineteenth Century (3)

Political Science

Six credits (beyond American National Government, POSC 103) chosen from the following:

- POSC 209 Introduction to Law (3)
 POSC 305 Urban Government and Politics (3)
 POSC 375 Public Administration (3)
 POSC 418 Constitutional Law (3)

Health

Six credits (beyond Current Health Problems, HLTH.101)

- HLTH 221 Human Sexuality (3)
 HLTH 405 Drugs in Our Culture (3)

*Students are advised to take this course to fulfill GenEd I.D Advanced Composition.

MEDIEVAL AND RENAISSANCE STUDIES

Advisory Committee: BLASTING, (Theatre Arts); McLUCAS, (Modern Language); NEWMAN, (English, Coordinator)

OFFICE

Linthicum Hall, Room 219D, (410) 830-3864

The Program

By electing the concentration in Medieval and Renaissance Studies, majors in Interdisciplinary Studies receive the opportunity for comprehensive interdisciplinary study of the Medieval and Renaissance period. A degree in Medieval and Renaissance Studies can lead to fulfilling careers in such areas as teaching, museum work, archival research, and freelance writing, as well as to interdisciplinary graduate studies in the Middle Ages and the Renaissance. As a second major, this concentration provides a special perspective on almost any other field of study. Students in this field can have unique opportunities to study the Medieval and Renaissance collections at Baltimore's Walters Art Gallery, Washington's Folger Library, the National Gallery of Art, and Dumbarton Oaks.

Honors Program

Students interested in earning honors in Medieval and Renaissance Studies should see their advisor in the program.

Requirements for the Concentration

Like all Interdisciplinary Studies majors, students choosing this concentration must take at least 45 semester hours of upper-division course work from the departments of arts and sciences. Of these, at least 36 hours shall consist of course work in subjects related to the Middle Ages and the Renaissance.

Eighteen of the 36 hours shall be distributed as follows: six hours in English; six hours in history; and six hours from two of the following disciplines: Art, Latin, Modern Languages, Music, Philosophy, and Theatre Arts.

The remaining 18 hours may be distributed according to the student's choice, except that no more than 21 hours may come from a single department.

Directed readings, research methods, independent study, honors thesis or minimester courses in Medieval and Renaissance topics, when approved by the Medieval and Renaissance Studies Committee, may be undertaken within the requirements of the departments that offer them and with the approval of the teaching faculty member. Instruction in Latin is available through the Department of Modern Languages at the elementary, intermediate, and advanced levels.

Approved Courses

The upper-division courses listed below are applicable to the Medieval and Renaissance Studies concentration. An asterisk marks those courses whose subject matter changes from semester to semester and which hence are not always applicable to the Medieval and Renaissance Studies concentration. Before pre-registration, the committee will make available a list showing which asterisked courses are available to Medieval and Renaissance Studies for that semester. The subject matter of some of these courses can be arranged according to students' individual interest. Students wishing to use such courses towards their Medieval and Renaissance Studies concentration should consult with their advisors in the program and with the course instructor during the semester before they intend to take the course.

Art

- ART 444 Gothic Art (3)
- ART 445 Italian Renaissance Art: 15th-16th Centuries (3)
- ART 485 *Seminar in Art History (3)

English

- ENGL 321 Medieval British Literature (3)
- ENGL 322 British Medieval and Renaissance Drama (3)
- ENGL 323 British Renaissance Literature (3)
- ENGL 324 British Literature of the Later Renaissance (3)
- ENGL 425 Chaucer (3)
- ENGL 427 Shakespearean Comedy (3)
- ENGL 428 Shakespearean Tragedy (3)
- ENGL 429 Milton and the Humanist Tradition (3)
- ENGL 451 History of the English Language (3)
- ENGL 471 *Topics in World Literature (3)
- ENGL 472 *Topics in British Literature (3)
- ENGL 485 *Seminar in Literary Studies I (3)
- ENGL 486 *Seminar in Literary Studies II (3)
- ENGL 490 *Directed Studies in English (2-4)
- ENGL 494 *Travel and Study (3-6)

Geography

- GEOG 451 Geography of Europe (3)

History

- HIST 303 Hellenistic Civilization (3)
- HIST 304 Ancient Greek Civilization (3)
- HIST 305 Roman Civilization (3)
- HIST 401 The Early Middle Ages: 300-1050 (3)
- HIST 402 The High Middle Ages: 1050-1350 (3)
- HIST 403 The Renaissance Era: 1300-1500 (3)
- HIST 404 The Reformation: 1500-1648 (3)
- HIST 496 *Directed Individual Research (2-4)
- HIST 486 History Seminar (3)
- HIST 483 *Biographical Studies in History (3)
- HIST 484 *Historical Themes (3)
- HIST 494 *Travel and Study (3-6)
- HIST 487 Colloquium (3)
- HIST 497 *Directed Reading (2-4)
- HIST 499 *Honors Thesis (4-8)

Latin

- LATN 301-302 Advanced Latin Readings

Modern Languages

- FREN 321 Survey of French Literature I (3)
- FREN 470 *Special Topics in French (3)

- FREN 491 *Directed Readings in French Literature (1-3)
- GERM 321 Survey of German Literature I (3)
- GERM 491, 492 *Directed Readings in German (1-3) (1-3)
- ITAL 321 Survey of Italian Literature I (3)
- SPAN 321 Survey of Spanish Literature I (3)
- SPAN 491, 492 *Directed Reading in Spanish Literature (1-3) (1-3)

Music

- MUSC 301 History of Music I (3)
- MUSC 401 Music Prior to 1600 (3)

Philosophy

- PHIL 322 Hellenistic and Medieval Philosophy (3)
- PHIL 440 *Philosophical Systems (3)
- 449
- PHIL 470 *Philosophical Problems (3)
- 479
- PHIL 495 *Research Tutorial in Philosophy (3)

Recommended Courses

This list contains lower-division courses whose content is largely in the Medieval and Renaissance areas or their backgrounds; and lower- and upper-division courses whose methodologies are valuable to students of the Middle Ages or the Renaissance. The upper-division courses can be counted toward the student's 45 semester hours in the Interdisciplinary Studies major. An asterisk marks courses that serve as prerequisites for approved upper-division courses.

Art

- ART 105 Art in the Culture (3)
- *ART 221 Prehistoric to Medieval Art (3)
- *ART 222 Renaissance to Contemporary Art (3)

English

- ENGL 221 British Literature to 1798 (3)
- ENGL 241 World Literature Through the Middle Ages (3)
- ENGL 243 Introduction to Classical Mythology (3)
- ENGL 341 History and Literature of the Old Testament (3)
- ENGL 342 Folklore and Literature (3)
- ENGL 343 Myth and Literature (3)

History

- *HIST 101 Introduction to Ancient Civilization (3)
- *HIST 211 Christianity from Jesus to Luther (3)
- *HIST 241 History of European Civilization through the Seventeenth Century (3)
- HIST 275 History of Ancient Israel (3)

Language

- LATN 101-102 Latin Elements, I, II (3, 3)
- LATN 201-202 Latin Intermediate I, II (3, 3)

Philosophy

- PHIL 221 Ancient Greek Philosophy (3)
- PHIL 355 Interpretation of the Bible: New Testament (3)

Sociology and Anthropology

- ANTH 207 Cultural Anthropology (3)
- ANTH 388 Peasant Cultures (3)

Theatre Arts

- THEA 211 History of Theater and Drama I (3)
- THEA 212 History of Theatre and Drama II (3)
- THEA 241 Costume Dress and Society: Egypt to Elizabethan (3)

The Minor in Medieval and Renaissance Studies

The minor in Medieval and Renaissance Studies is designed for students whose major interest is in a single discipline (English, History, Theatre Arts) but who would also like to develop a specialization in the medieval and Renaissance periods. The minor is also a good choice for students who are strongly interested in the concentration but who are not sure that they intend to pursue post-graduate work or education in it.

The Program for the Minor in Medieval and Renaissance Studies

The minor consists of 21 hours of course work distributed as follows:

1. Six hours divided as follows:
 - a. ENGL 221 British Literature to 1798 (3) *or* ENGL 241 World Literature through the Middle Ages (3)
 - b. HIST 241 History of European Civilization through the Seventeenth Century (3) *or* HIST 211 History of Christianity from Jesus to Luther (3)
2. Six hours of approved upper-division courses (i.e., those approved for the major as listed above), three hours in English and three hours in History.
3. Three hours of approved upper-division courses in Art, Latin, Modern Languages, Music, Philosophy, or Theatre Arts.
4. Six hours of approved upper-division courses, distributed according to the student's choice, with the guidance of his or her advisor.

MOLECULAR BIOLOGY TRACK

Advisory Committee: PREISLER, (Chemistry, Coordinator); RAWN, (Chemistry); DENNISTON, (Biology); MASTERS, (Biology); MECHLING, (Biology)

OFFICE

Smith Hall, Room 567, (410) 830-3132

The Program

Molecular Biology is a specialized field at the interface between chemistry and biology. Its goal is the understanding of heredity and other functions of life through the study of biological molecules and molecular processes. The student who wishes to pursue graduate research or laboratory work in this field will need a solid grounding in the principles of chemistry and the concepts of related fields of biology. The program will provide a strong preparation for graduate studies or employment in the research laboratory in the following areas: biochemistry, biophysics, cell biology, immunology, microbiology, and molecular biology. Students interested in medical or dental school would also benefit from the breadth and depth of the science course offerings.

Requirements for the Track

The curriculum presented below includes 30-33 upper-division credits of required courses and three upper-division elective credits. The course requirements for this thematic option reflect the interdisciplinary nature of molecular biology.

Required Courses

BIOL 201	Biology I: Cellular Biology and Genetics (4)
BIOL 318	Microbiology (4)
BIOL 401	Genetics (4)
BIOL 408	Cell Biology (4)
CHEM 101-102	General Chemistry I and II (4, 4)
CHEM 210	Principles and Methods of Chemical Analysis (4)
	<i>or</i>
CHEM 211-212	Introduction to Quantitative Analytical Chemistry-Lecture & Lab (3, 2)
PHYS 241-242	General Physics I and II (strongly recommended) (4, 4)
CHEM 331-332	Organic Chemistry I and II (5, 5)
CHEM 340	Physical Chemistry: Principles and Application (3)
	<i>or</i>
CHEM 341-342	Physical Chemistry Thermodynamics & Structure & Kinetics (3, 3)
CHEM 351	Introductory Biochemistry (3)
CHEM 356-	Biochemistry Laboratory (2)

Electives

One of the following

BIOL 403	Advanced Genetics (3)
BIOL 421	Immunology (3)

CHEM 452 Advanced Biochemistry (3)

Recommended Courses

An independent research project related to molecular biology is also recommended, especially for those students contemplating graduate school. The appropriate courses are:

BIOL 491 Independent Research in Biology, (2-3)

or

CHEM 491-494 Introduction to Research in Chemistry (1-3)

PRE-LAW

Coordinator: Dr. Jack Fruchtman

OFFICE

Linthicum Hall, Room 118B, (410) 830-3350

The Program

Students contemplating law school after graduation should make an appointment with the University's Pre-law Advisor, who is a member of the Department of Political Science. He can provide prospective students with a copy of the "Towson Pre-law Handbook," introduce them to the Pre-law Society, and offer advice concerning courses of study, preparation for the Law School Admissions Test, and other matters pertaining to what students need for their application to law school. In general, students should concentrate on improving their reading, writing, and speaking skills.

Dual Law Program

Towson University offers to qualified students the opportunity to apply to the early admission program at the University of Baltimore School of Law. Admission is not automatic, but is contingent upon acceptance by the University of Baltimore Law School (including review of LSAT scores). Transfer to the UB Law program can only take place at the end of a spring semester. To qualify for entrance to the dual-degree program, students must fulfill the first three of the standards listed below; to qualify for graduation from Towson University, they must also fulfill the fourth standard listed:

1. Completion of at least 91 credits at TU with at least a 3.0 QPA.
2. Completion of all TU General Education requirements.
3. Completion of a major at TU with at least a 3.25 QPA in the major. No specific areas of study or disciplines are required for this program; accordingly, students may choose majors in which they are most interested.
4. Successful completion of 29 credits at the University of Baltimore School of Law, and of all other TU graduation requirements as listed in the undergraduate catalog under the heading, "Degree Requirements."

Subsequent completion of all requirements at the University of Baltimore Law School is necessary in order to earn the J.D. degree from the University of Baltimore. Students interested in this program should contact the TU Pre-law Advisor, Dr. Jack Fruchtman, in the Department of Political Science.

RELIGIOUS STUDIES

Advisory Committee: WOOD, (English, Coordinator); JONES, (Sociology)

OFFICE

Linthicum Hall, Room 219J, (410) 830-2867

The Program

The Religious Studies concentration is an interdisciplinary program which offers students the opportunity to study religion from a variety of perspectives. The program is administered by a faculty committee.

Requirements for the Concentration

As in all thematic options, 45 credits must be taken in upper-division courses. For the Religious Studies option, 36 credits must be from the approved list of courses having substantial religious content. No more than four lower-division credits may be applied to this 36 credit requirement, and no more than 21 of the 36 credits may be taken in any one department. The distribution of 18 of the 36 credits must be: six from the Department of History, six from the Department of Philosophy and Religion, and six from other departments.

Directed readings, research methods, independent study, honors thesis or minimester courses in religious topics, when approved by the Religious Studies committee, must be undertaken within the requirements of the department that offers them and with the approval of the teaching faculty member.

The following courses are approved for credit in the Religious Studies option. However, courses marked with an asterisk are only applicable during semesters when they have been approved for credit by the Religious Studies committee. The committee shall meet prior to pre-registration each semester to determine which of the courses marked with an asterisk shall be applicable for credit to the Religious Studies program for the following semester. Students may also apply to the committee for approval of transfer credits from other colleges into the Religious Studies option within the existing college rules for transfer.

Approved Courses

*Indicates approval required each semester offered.

Art

ART 302	The Art of China (3)
ART 303	The Art of Japan (3)
ART 444	Gothic Art (3)
ART 445	Italian Renaissance Art: 15th & 16th Centuries (3)
ART 471	Art & Architecture of Ancient Greece (3)
ART 472	Art & Architecture of Roman Empire (3)
ART 479	Baroque Art & Architecture (3)
ART 480	Eighteenth Century Art & Architecture (3)
ART 385	*Seminar in Art History (3)

English

ENGL 243	Introduction to Classical Mythology (3)
ENGL 270	*Ideas in Literature (3)
ENGL 341	History and Literature of the Old Testament (3)
ENGL 343	*Myth and Literature (3)
ENGL 471	*Topics in World Literature (3)
ENGL 472	*Topics in British Literature (3)
ENGL 473	*Topics in American Literature (3)
ENGL 485	*Seminar in Literary Studies I (3)
ENGL 486	*Seminar in Literary Studies II (3)
ENGL 490	*Directed Studies in English (2-4)
ENGL 494	*Travel and Study (3-6)

History

HIST 211	Christianity From Jesus to Luther (3)
HIST 277	A Survey of Jewish History (3)
HIST 303	Hellenistic Civilization (3)
HIST 401	The Early Middle Ages, 300-1050 (3)
HIST 402	The High Middle Ages, 1050-1350 (3)
HIST 483	*Biographical Studies in History (3)
HIST 484	*Historical Themes (3)
HIST 486	History Seminar (3)
HIST 494	*Travel and Study (3-6)
HIST 496	*Colloquium (3)
HIST 497	*Directed Reading (2-4)

Philosophy and Religion

PHIL 301	Philosophies of India (3)
PHIL 302	Philosophies of China and Japan (3)
PHIL 322	Hellenistic and Medieval Philosophy (3e)
PHIL 341	*Ethics (3)
PHIL 253	*Contemporary Ethical Problems (3)
PHIL 353	Philosophy of Religion (3)
PHIL 355	Interpretation of the Bible: New Testament (3)
PHIL 357	Comparative Religion (3)
PHIL 470-479	*Topics in Philosophical Problems (3)
PHIL 495	*Research Tutorial in Philosophy (3)

Psychology

PSYC 381	*Readings in Psychology (1-2)
PSYC 491	*Independent Investigation in Psychology (3)
PSYC 499	*Senior Thesis in Psychology (4)

Sociology and Anthropology

SOCI 470-479	*Special Topics in Sociology (3)
SOCI 485	Seminar in Sociology (3)
SOCI 495	*Independent Research (3)
ANTH 364	Religion, Magic and Witchcraft (3)
ANTH 470-479	Special Topics in Anthropology (3)
ANTH 495	*Independent Research (3)



International Studies Program

Professors: GEORGIU, (*Economics*); GIRO, (*Modern Languages*); LEE, (*Economics*); MCCOOL, (*Modern Languages*); McKIM, (*Geography and Environmental Planning*); McWILLIAMS, (*History*); PINEO, (*History*); ROBERTS, (*Political Science, Director*); ROMERO, (*History*); RUDOLPH, (*Political Science*); SOMERS, (*Management*); WOLF, (*Anthropology*)

OFFICE

Linthicum Hall, Room 118H, (410) 830-2958, 830-3510

THE PROGRAM

The International Studies program is designed to appeal to a diversity of students who plan to go on to a variety of careers and graduate study ranging from government and the foreign service to international business and trade, international education, and international social service. The program aims to achieve a global perspective through an interdisciplinary network of courses and experiences which will lead to a *Bachelor of Arts degree in International Studies*. The program is administered by a committee composed of representatives from the following disciplines: economics, geography and environmental planning, history, management, modern languages, political science, and sociology/anthropology.

MAJOR IN INTERNATIONAL STUDIES

All International Studies students must take the specified number of courses in each of the three tiers to complete the major. This constitutes a total of 15 courses or 45 credit hours plus the foreign language (see explanation of language requirement below). All 15 courses must be completed with a letter grade of "C" or better. It is recommended that courses from the first tier, the foundation courses, be taken prior to courses from the second or third tier.

FIRST TIER -- FOUNDATION COURSES (18 credits)

All International Studies majors must take all of the following courses:

ANTH 207	Cultural Anthropology (3)
ECON 201	Microeconomic Principles (3)
ECON 202	Macroeconomic Principles (3)
GEOG 105	Geography of International Affairs (3)
HIST 242	European Civilization Since the 17th Century (3)
POSC 107	Introduction to International Relations (3)

SECOND TIER -- FUNDAMENTAL COURSES (15 credits)

From the following set of courses, the student must select five courses (including at least one from Political Science) representing at least four disciplines:

ECON 323	Comparative Economic Systems (3)
ECON 325	Economic Development (3)
ECON 421	International Economics (3)
GEOG 381	Political Geography (3)
GEOG 359	Economic Geography
HIST 151	The World Since 1945 (3)
HIST 415	Diplomatic History of Europe: 1815-1939 (3)
MNGT 355	Intro. to International Business (3)
POSC 303	Theory of International Politics (3)
POSC 339	Comparative Political Systems (3)
POSC 428	Political Theory II (3)

THIRD TIER -- RELATED ELECTIVES (12 credits, upper division)

Courses on the Third Tier are designed so that students can choose between Plan A (Regional Track) and Plan B (Non-Regional Track). Plan A is aimed at those students who wish to concentrate on a particular world region such as Asia, Latin America, or Europe. Plan B is designed to allow students to select courses devoid of regional concentration, e.g., students wishing to focus on international relations can choose Plan B, their advisers aiding them in selecting the relevant courses. Students who opt for Plan A (Regional Track) must take at

least three of four elective courses in their area of concentration. Students are also permitted to take more than the required number from the Second tier and add them to the courses that they take to complete the requirements on the Third Tier. It is important to note, however, that regardless of the Plan the student chooses, courses must be approved by the faculty advisor or the Director of International Studies.

Plan A -- Regional Track

Under this plan students concentrate on a particular world region such as Asia, Latin America, Western Europe, etc. and complete 12 upper-division credits in courses related to the student's geographical area of concentration.

Plan B -- Non-Regional Track

Under this plan students complete 12 upper-division credits of approved elective courses relating to international affairs.

Foreign Language Requirement

Students should plan on achieving a level of proficiency in one foreign language that is the equivalent of four semesters of college level foreign language training. This requirement may be completed by taking Elements I and II and Intermediate I and II or by an Equivalence Examination at the Intermediate level administered each November by the Department of Modern Languages. Students who have completed several years of foreign language in high school should consult with the Chair of Modern Languages to determine the number of courses or credits needed to fulfill this requirement for the major.

The foreign language requirement for certified foreign students who are not native speakers of English will be waived after the students successfully complete a comprehensive oral and written examination in their native language at the 300 level. This examination for foreign students is given each November by the Modern Language Department at Towson University.

TRANSFER CREDIT POLICY

Transfer students must take a minimum of 18 credits of upper-division courses in International Studies at Towson to fulfill the requirements for the major.

INTERNATIONAL STUDIES ACTIVITIES AND PROGRAM

The International Studies major offers students the opportunity to participate in the following special programs and activities:

- Internships for academic credit in metropolitan Baltimore and Washington, D.C.
- A spring semester Model Organization of American States (MOAS) in Washington, D.C. for academic credit
- The Naval and Air Force Academy's Foreign Affairs Conferences.
- Editing and managing the *Towson Journal of International Affairs* for academic credit.
- Travel-study opportunities to over 15 countries.
- The Annual Earle T. Hawkins Symposium on International Affairs.

Department of Modern Languages

Professors: GIRO, (Chair); O'PECKO, POIRIER

Associate Professors: EVANS, LEETCH, LEVNO, McCOOL, McLUCAS, ZUMBO

Assistant Professors: EBACHER

Adjunct Faculty: BRAUN, COSKI, GALLA, HSIEH, LENTULAY, MEDVITZ, MILLAN, MIRABILE, PREVAS, SHEETS, SUND, VENEGAS, WILSON

OFFICE

Linthicum Hall, Room 319 F/G, (410) 830-2883, Fax 1-410-830-4250

PROGRAMS OF THE DEPARTMENT

The Department of Modern Languages offers the following programs: 1) the major or minor in French, German, and Spanish; 2) the major in French, German, and Spanish secondary Education; 3) the major in French, German, and Spanish Literature/Professional Program; 4) the Certificate of Proficiency in French, German, and Spanish, for non-language majors or minors planning for careers which require reasonable oral and written competency in a foreign language; and 5) language electives, for all students who wish to acquire a reading or conversational ability in one of the following languages: Russian, Chinese, Portuguese, Hebrew, Japanese, Greek, Latin, Italian and Hindi. Expansion of these non-major languages will be made in response to expressed student interest. Students majoring or minoring in French, German or Spanish must declare their major or minor in the Modern Languages Department and are required to have academic advisors in their major and minor field and maintain close contacts with the faculty advisors in order to select and prepare their course of study. Majors should see their advisors at least once a semester. It is recommended that the major be declared during or before the sophomore year.

Culture and Civilization Course Requirement

The requirement of six hours of Culture and Civilization for Spanish majors is strongly felt by the Spanish faculty to be a necessity in their program. This is primarily because of the great diversity of Spanish-speaking countries in Europe, South America and Central America, and the importance of a knowledge of this diversity for all who teach or otherwise use Spanish. The French faculty feels likewise that French Culture and Civilization represents a necessary aspect of the language program and considers it important. They believe the study of the culture and civilization of the French-speaking people and their countries cannot be separated from the study of the language. The German Culture & Civilization course is required for the Program in Teacher Education in German.

Dual Majors

The Department of Modern Languages encourages its language majors in French, German or Spanish to carry an additional major in either another language or combine their language with another field of study. Interested students should consult the Modern Languages Department.

FRENCH

MAJOR IN FRENCH LITERATURE/PROFESSIONAL PROGRAM

In addition to the General Education requirements, French Literature/Professional Program majors must complete 30 credit hours with a grade of "C" or higher in French beyond the intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (15 credits)

FREN 301-302 Composition & Conversation I, II (3, 3)
FREN 311 Culture & Civilization I (3)

or

FREN 312 Culture & Civilization II (3)
FREN 321-322 Survey of French Literature I, II (3, 3)

Electives

Fifteen hours in the target language, including nine hours of literature at the 400 level are required.

Students wishing to acquire Professional Program rather than Literature study, with the permission of the department, can substitute one 400 elective course with the Internship (497). The internship is generally completed in the junior or senior year and students will need to complete 27 credits beyond the intermediate level and have a grade point average of at least 2.50 in the foreign language before applying for the internship.

FRENCH SECONDARY EDUCATION PROGRAM

French majors may wish to obtain certification to teach French at the secondary level. Students in this Secondary Education program receive certification to teach in Maryland upon graduation. In addition to the General Education requirements, and the requirements specified by the Department of Secondary Education, students must complete 30 credits with a grade of "C" or higher beyond the Intermediate level from among the following courses.

Majors who are in the Secondary Education program are required to take Advanced Grammar and Method of Teaching a Foreign Language before student teaching.

Required Courses (24 credits)

FREN 301-302 Composition and Conversation I, II (3, 3)
FREN 311 Culture and Civilization I (3)
or
FREN 312 Culture and Civilization II (3)
FREN 321-322 Survey of French Literature I, II (3, 3)
FREN 391 Advanced Grammar (take before student teaching) (3)
FREN 401 French Phonetics (3)
FREN 402 Applied French Linguistics (3)

Electives

Six hours of electives at the 400 level are required.

GERMAN

MAJOR IN GERMAN LITERATURE/PROFESSIONAL PROGRAM

In addition to the General Education requirements, German Literature/Professional Program majors must complete 30 credit hours with a grade "C" or higher in German beyond the intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (15 credits)

GERM 301-302 Composition & Conversation I, II (3, 3)
GERM 311 Culture & Civilization I (3)
GERM 321 Survey of German Literature I (3)
GERM 341 Readings in Contemporary German (3)

Electives

Fifteen hours in the target language, including nine hours of literature at the 400 level are required.

Students wishing to acquire Professional Program rather than Literature study, with the permission of the department, can substitute one 400 elective course with the Internship (497). The internship is generally completed in the junior or senior year and students will need to complete 27 credits beyond the intermediate level and have a grade point average of at least 2.50 in the foreign language before applying for the internship.

GERMAN SECONDARY EDUCATION PROGRAM

German majors in the Secondary Education program receive certification to teach in Maryland upon graduation. In addition to the General Education requirements, and the requirements specified by the Department of Secondary Education, students must complete 30

credits with a grade of "C" or higher beyond the Intermediate level from among the following courses. Stylistics is recommended as an elective.

Required Courses (21 credits)

GERM 301-302	Composition and Conversation I, II (3, 3)
GERM 311	Culture and Civilization (3)
GERM 321	Survey of Literature I (3)
GERM 341	Readings in Contemporary German (3)
GERM 391	Advanced German Grammar (3)
GERM 401	German Phonetics (3)

Electives

Nine hours of electives are required at the 400 level. (Phonetics course will be offered every three semesters or in accordance with student needs.)

SPANISH

MAJOR IN SPANISH LITERATURE/PROFESSIONAL PROGRAM

In addition to the General Education requirements, Spanish Literature/Professional Program majors must complete 30 credit hours with a grade of "C" or higher in Spanish beyond the intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (15 credits)

SPAN 301-302	Composition & Conversation I, II (3, 3)
SPAN 311	Culture & Civilization I (3)
SPAN 312	Culture & Civilization II (3)
SPAN 321-322	Survey of Spanish Literature I, II (3, 3)

Electives

Twelve hours in the target language, including nine hours of literature at the 400 level are required.

Students wishing to acquire Professional Program rather than Literature study, with the permission of the department, can substitute one 400 elective course with the Internship (497). The internship is generally completed in the junior or senior year and students will need to complete 27 credits beyond the intermediate level and have a grade point average of at least 2.50 in the foreign language before applying for the internship.

SPANISH SECONDARY EDUCATION PROGRAM

Spanish majors in the Secondary Education program receive certification to teach in Maryland upon graduation. In addition to the General Education requirements, and the requirements specified by the Department of Secondary Education, students must complete 30 credits with a grade of "C" or higher beyond the Intermediate level in the following courses.

Required Courses (27 credits)

SPAN 301-302	Composition and Conversation I, II (3, 3)
SPAN 311-312	Culture and Civilization I, II (3, 3)
SPAN 321-322	Survey of Literature I, II (3, 3)
SPAN 391	Advanced Spanish Grammar (3)
SPAN 401	Spanish Phonetics (3)
SPAN 402	Spanish Linguistics (3)

Required Literature Courses

Three hours of a 400-level literature course must be taken in Spanish.

MINOR IN MODERN LANGUAGE

This program is designed to provide majors in other disciplines with the educational background necessary to broaden and enhance their career opportunities and to enable teacher candidates to meet the requirements for a Maryland State Department of Education teaching certificate.

The minor in French, German and/or Spanish requires students to complete 12 upper-division credit hours plus the Intermediate level

courses I, II, to complete 18 credits. SCED 353, Teaching Modern Language in the Secondary Schools, is required of teaching candidates in addition to the minor.

Language minors may transfer up to eight hours toward a minor and must earn 12 upper-division credit hours at Towson.

The minor should be approved by the student's Modern Languages Department advisor and cannot be taken concurrently with the Certificate of Proficiency in a modern foreign language.

Requirements for the Minor

Required Courses (18 credits)

- Intermediate Level Courses I and II (3, 3)
- Composition and Conversation I or II (3)
- Culture and Civilization I or II (3)
- Advanced Grammar (3)
- Elective course (3)

CERTIFICATION OF PROFICIENCY IN A MODERN FOREIGN LANGUAGE

The Department of Modern Languages has designed a program of studies that offers the non-language major a Certificate of Proficiency in French, German or Spanish upon satisfactory completion of prescribed requirements.

The Certificate of Proficiency may be earned by a degree candidate at Towson University as well as by an individual whose sole interest in attending the university is for the purpose of obtaining the certificate.

A Certificate of Proficiency is an important document for those individuals who are planning or practicing careers which require reasonable oral and written competency in a given modern language. In the job market, national and international, we are aware that a large number of opportunities await persons whose knowledge of one or more modern foreign languages has been well established through intensive college study. The Certificate of Proficiency is quite advantageous for aspiring professionals in the fields of communications, public services, business and finance, agriculture, transportation, health services, education, energy, natural resources, journalism, law, foreign services, governmental service, air traffic management, import/export purchasing and selling, etc.

In order to receive the Certificate of Proficiency, the student must pass all required courses with acceptable grades (A, B or C's). The student who is prepared to begin at the advanced level will need to complete 12 credits of study whereas the student who begins at the elementary level will have to earn 24 credits in the particular language.

Requirements for the Certificate of Proficiency in French, German or Spanish

Required Courses (24 credits)

101-102	Elements (3, 3)
201-202	Intermediate I, II (3, 3)
301	Composition and Conversation I, (3) or
302	Composition and Conversation II (3)
311	Culture and Civilization I (3) or
312	Culture and Civilization II (3)
391	Advanced Grammar (3)
495	Internship for the Certificate of Proficiency (3)

Special courses will be planned and introduced in accordance with student needs.

MEETING B.A. REQUIREMENTS

The completion of the intermediate level, or its equivalent, is required of all candidates for the Bachelor of Arts degree. This requirement may be met by (a) completing two or more years of the language in high school plus the intermediate level courses in college, (b) completing the elementary and intermediate level courses in the language in college, *(c) successfully completing an equivalency examination in

any language offered at the intermediate level administered each November by the Department of Modern Languages at Towson University, (d) successfully completing one semester of any course beyond the intermediate level or *(e) successfully completing a credit for experience examination in any language offered at the 301-302 level administered each November by the Department of Modern Languages at Towson University.

*Students interested in (c) or (e) should consult the Modern Languages Department for further information.

COMPETENCY CREDITS IN MODERN FOREIGN LANGUAGES

Degree candidates successfully completing courses numbered 102, 201, 202, or 301 in any foreign language offered by the Modern Languages Department at Towson University may earn a maximum of six (6) credits for the two preceding courses if the course in which they are enrolled is successfully completed with a grade of "C" or higher in the first attempt. Students registering for any of these language courses for the purpose of receiving competency credits must select the regular grading option. Students may attempt to earn competency credits by completing a higher level language course only once. Students who have earned credits via the competency credits or credit for prior learning exam in a foreign language cannot enroll in any other lower level courses in the same language for which they received the credits. Students should consult the Modern Languages Department for detailed information about the Competency Credits in foreign languages.

PLACEMENT IN LANGUAGES

The Modern Languages Department's policy regarding placement of entering students with high school language study follows:

1. One year of high school language study, the student may register for 101 or 102.
2. Two years of high school language study, the student may register for 102 or 201.
3. Three years of high school language study, the student may register for 201 or 202.
4. Four years of high school language study, the student may register for 202 or any 300 level course.
5. Five years of high school language study, the student may register for any 300 level course.

Students will normally want to register for the higher level course for which they are qualified. Deviations from this plan must be approved by the Department of Modern Languages.

TRANSFER CREDIT POLICY

Transfer students may transfer a maximum of 15 hours toward the major.

HONORS PROGRAM

The Department of Modern Languages participates in the University Honors Program. Students interested in completing a language major with honors should consult the department Honors Board representative no later than the first semester of their junior year.

SPECIAL DEPARTMENTAL PROGRAMS

The department sponsors the Eta Gamma Chapter of the National Spanish Honor Society, Sigma Delta Pi and encourages all Spanish students to participate in the activities of the Society. The department also sponsors the Kappa Pi chapter of the National French Honor Society, Phi Delta Phi.

The department offers an internship program through the Internship/Cooperative Education Office.

A junior year abroad in France or Germany and a travel studies program to Spain are also available.

The Modern Languages department is a testing center for the

Certificat Pratique du Francais Commercial et Economique. Students may take the test for the "Certificat" after having completed the French for Business course.

Note for foreign language students: Courses at the levels of 101, 102, 201, and 202 in any foreign language offered by the department are not open to students who have completed a higher level in the same language.



Department of Philosophy and Religion

Professors: EVANGELIOU, FUCHS, MURUNGI, (Chair), PILARDI
Associate Professors: CHRISTIAN, EVANGELIOU, KEALEY
Assistant Professors: SCALES, WONG

OFFICE

Linthicum Hall, Room 219F, (410) 830-2755

PHILOSOPHY PROGRAM

The examination of the nature of philosophy is an essential feature of the philosophy program. The program pays close attention to the history of philosophy for it is in its history that the nature of philosophy is manifested. The program also attends to the diverse social and cultural settings out of which philosophy develops, to which it speaks and with which it interacts. Philosophy cultivates and nourishes rigorous thinking; the development and the practice of analytic and dialectical skills are strongly emphasized.

The program prepares students for advanced work in philosophy, humanistic studies, and various professions. The sound, clear and systematic thinking that philosophy emphasizes also makes philosophical education relevant to every other discipline. Hence, the program is designed to meet not only the needs of the majors and minors but also the needs of every other student in the University. Furthermore, it fosters reflection, a prerequisite for leading the good life.

The department also offers a variety of courses on religion. The courses investigate the nature of religion as it is manifested in various religions and also inquire into the role that religion plays both in the lives of individuals and in cultures.

The Department of Philosophy offers a major and a minor in Philosophy. The program encourages students to take as great a diversity of courses as possible. It is flexible enough to ensure the incorporation of new interpretations and new schools of philosophy. It also enables the faculty to be innovative and to develop new courses.

In exceptional instances the student may, with the permission of the chair, make substitution of courses within the department for required courses. Three credits may, with the permission of their chair, be taken in an allied discipline.

THE PHILOSOPHY MAJOR (33 credits)

Requirements for the Major

Section A:

PHIL 111 Logic (3 credits)

Section B: Required Courses (9 credits)

PHIL 221 Ancient Greek Philosophy (3)
 PHIL 322 Hellenistic and Medieval Phil. (3)
 PHIL 324 Modern Philosophy (3)
 PHIL 325 Schools of Contemporary Phil. (3)

Section C: Required Courses (6 credits)

PHIL 301 Philosophies of India (3)
 or
 PHIL 302 Philosophies of China & Japan (3)
 PHIL 326 American Philosophy (3)
 PHIL 327 African Philosophy (3)
 PHIL 357 Comparative Religion (3)

Section D: Required Courses (6 credits)

PHIL 201 Social and Political Philosophy (3)
 PHIL 319 Science, Technology and Values (3)
 PHIL 332 Feminist Philosophy (3)
 PHIL 341 Ethics (3)

Section E: Required Courses (3 credits)

PHIL 320 Philosophy of Science (3)
 PHIL 321 Philosophy of Law (3)
 PHIL 339 Theories of Knowledge (3)

PHIL 343 Aesthetics (3)
 PHIL 353 Philosophy of Religion (3)
 PHIL 380-389 Philosophical Topics (3)

Section F: Electives (6 credits)

PHIL 413 Phenomenology (3)
 PHIL 417 Existentialism (3)
 PHIL 440-449 Philosophical Systems (3)
 PHIL 460-469 Writing Seminar in Philosophical Studies (3)
 PHIL 470-479 Philosophical Problems (3)
 PHIL 495-595 Research Tutorial in Philosophy

THE PHILOSOPHY MINOR: (24 credits)

Requirements for the Minor

Section A:

PHIL 111 Logic (3)
 PHIL 101 Introduction to Philosophy (3)

Section B: Required Courses (6 credits)

PHIL 221 Ancient Greek Philosophy (3)
 PHIL 322 Hellenistic and Medieval Phil. (3)
 PHIL 324 Modern Philosophy (3)
 PHIL 325 Schools of Contemporary Phil. (3)

Section C: Required Courses (3 credits)

PHIL 301 Philosophies of India (3)
 or
 PHIL 302 Philosophies of China & Japan (3)
 PHIL 326 American Philosophy (3)
 PHIL 327 African Philosophy (3)
 PHIL 357 Topics in Comparative Religion (3)

Section D: Required Courses (3 credits)

PHIL 201 Social and Political Philosophy (3)
 PHIL 319 Science, Technology and Values (3)
 PHIL 332 Feminist Philosophy (3)
 PHIL 341 Ethics (3)

Section E: Required Courses (3 credits)

PHIL 320 Philosophy of Science (3)
 PHIL 321 Philosophy of Law (3)
 PHIL 339 Theories of Knowledge (3)
 PHIL 343 Aesthetics (3)
 PHIL 353 Philosophy of Religion (3)
 PHIL 380-389 Philosophical Topics

Section F: Required Courses (3 credits)

PHIL 413 Phenomenology (3)
 PHIL 417 Existentialism (3)
 PHIL 451 Philosophy of Religion (3)
 PHIL 440-449 Philosophical Systems (3)
 PHIL 460-469 Writing Seminar in Philosophical Studies (3)
 PHIL 470-479 Philosophical Problems (3)
 PHIL 495-595 Research Tutorial in Philosophy

Department of Political Science

Professors: BELGRAD (*Chair*); DENT, FRUCHTMAN, KUMAR, RUDOLPH

Associate Professors: MARZOTTO, MUNIAK, ROBERTS

Assistant Professors: CATES, MELCHIOR

Instructor: A. ISAACS

Adjunct Faculty: BOWEN, GINSBURG, HATHAWAY, J. ISAACS, KING, MULLEN, NACHMIAS, NICHOLS-VANDERWALL, WILLIS, ZALESKI

OFFICE

Linthicum Hall, Room 118M, (410) 830-2958, Fax (410) 830-2960

PROGRAMS OF THE DEPARTMENT

The program of courses in political science aims to promote understanding of the nature of political relationships. The Department of Political Science offers a *major and minor in Political Science*. In addition, the Department of Political Science offers a double major with the Department of Economics and with the Department of Geography. Students wishing to major in both Political Science and Economics or Political Science and Geography can obtain a double major which certifies that the requirements of both departments have been completed. Students should refer to the section on double majors listed below. The major prepares students for advanced study and provides the foundation for careers in public administration, law, public relations, business and research, urban and regional planning.

MAJOR IN POLITICAL SCIENCE

Thirty-six credits with a grade of "C" or better are required for the major in Political Science. The student must complete:

At least nine credits at the lower division level of which no more than 3 credits may be at the 200 level.

At least 24 credits at the upper-division level including courses in three of the four topical areas: Comparative Politics, International Politics, American Government and Public Administration, Law and Political Theory. [Note: Courses taught under Independent Study (POSC 490) or under Special Topics (POSC 470-479) will be assigned to one of the four areas by the department or the student's advisor. This is to assure that courses taken under these two categories are not used in more than one area in order to meet the three area requirements.]

Three credits from among the approved seminar courses. (Note: Seminar credit will not be given for Independent Study (POSC 490). All courses must be completed with a grade of "C" or better except POSC 465. "Pass" will count only for POSC 465.

Requirements for the Major

Required Courses (36 credits)

At least three of the following, of which no more than one may be at the 200 level

- POSC 101 Introduction to Political Science (3)
- POSC 103 American National Government (3)
- POSC 105 Governments of the World (3)
- POSC 107 Introduction to International Relations (3)
- POSC 207 State Government (3)
- POSC 209 Introduction to Law (3)

Approved Seminar Courses

- POSC 455 Seminar: International Law and Organization I (3)
- POSC 456 Seminar: International Law and Organization II (3)
- POSC 457 Seminar: Use of Force in International Law (3)
- POSC 482 Seminar in Political Science (3)
- POSC 483 Seminar: Politics and the News Media (3)
- POSC 485 Seminar: Democratic Theory Seminar (3)
- POSC 486 Seminar: Justice and the Law (3)
- POSC 488 Seminar: Topics in Public Policy (3)
- POSC 491 Seminar in Contemporary United States Foreign Policy (3)

Electives

Twenty-four credits of electives, not counting the required seminar, must be taken at the upper-division level in three of the four topical areas of Political Science.

Topical Areas

The department offers courses in four topical areas: Comparative Politics, International Politics, American Government and Public Administration, and Law and Political Theory. The numbers indicate courses that are offered in each area.

Comparative Politics. 333, 337, 338, 339, 340, 341, 351, 433, 451, 470, 471, 490, 498, 499

International Politics. 303, 307, 355, 385, 432, 435, 437, 439, 441, 445, 465, 472, 473, 474, 490, 491, 498, 499.

American Government and Public Administration. 305, 361, 375, 381, 383, 417, 450, 451, 461, 463, 467, 475, 476, 477, 490, 493, 498, 499.

Law and Political Theory. 359, 418, 419, 427, 428, 430, 478, 479, 490, 498, 499.

MINOR IN POLITICAL SCIENCE

Twenty-one credits with a grade of "C" or better are required for the minor in Political Science to be completed as follows: at least six credits at the lower-division level of which no more than three credits may be at the 200 level; at least 15 credits at the upper-division level.

Requirements for the Minor

Required Courses (21 credits)

At least two of the following, of which no more than one may be at the 200 level.

- POSC 101 Introduction to Political Science (3)
- POSC 103 American National Government (3)
- POSC 105 Governments of the World (3)
- POSC 107 Introduction to International Relations (3)
- POSC 207 State & Local Government (3)
- POSC 209 Introduction to Law (3)

Electives (15 credits)

Select 15 upper-division elective credits in political science.

Double Major: Political Science and Economics

Students electing to major in both Political Science and Economics must complete major requirements in both departments.

A total of 36 credits in Political Science must be earned to complete the major.

The following 12 credits are required:

At least three of the following, of which no more than one may be at the 200 level.

- POSC 101 Introduction to Political Science (3)
- POSC 103 American National Government (3)
- POSC 105 Governments of the World (3)
- POSC 107 Introduction to International Relations (3)
- POSC 207 State Government (3)
- POSC 209 Introduction to Law (3)

One of the following seminars:

- POSC 455 Seminar: International Law and Organization I (3)
- POSC 456 Seminar: International Law and Organization II (3)
- POSC 457 Seminar: Use of Force in International Law (3)
- POSC 482 Seminar in Political Science (3)
- POSC 483 Seminar: Politics and the News Media (3)
- POSC 485 Seminar: Democratic Theory Seminar (3)
- POSC 486 Seminar: Justice and the Law (3)
- POSC 488 Seminar: Topics in Public Policy (3)
- POSC 491 Seminar in Contemporary United States Foreign Policy (3)

Twenty-four credits of upper-division level courses in three of the four topical areas of political science-Comparative Politics, International Politics, American Government and Public Administration, Law and Political Theory. This does not include the required seminar. The

Political Science Department will accept *two* of the following in Economics toward fulfillment of the requirement for 24 credits of electives at the upper-division level:

- ECON 323 Comparative Economics Systems (3)
- ECON 331 Government and Economics Life (3)
- ECON 337 Public Finance (3)
- ECON 351 Urban Economics (3)

A total of 33 credits in Economics must be earned to complete the major.

Required Courses (21 credits)

- ECON 201 Microeconomic Principles (3)
- ECON 202 Macroeconomic Principles (3)
- ECON 309 Intermediate Price Theory (3)
- ECON 310 Macroeconomic Theory (3)
- ECON 313 Money and Banking (3)

One of the following

- ECON 301 Fundamentals of Statistics (3)
- MATH 231 Basic Statistics (3)
- MATH 332 Mathematical Statistics (3)
- GEOG 375 Quantitative Methods in Geography (3)

Electives

A 400 level course in Economics is required. Also, 12 credits of upper division elective courses must be taken to complete the major in Economics.

The Economics Department accepts two of the following courses in Political Science toward fulfillment of 12 credits of upper-division courses:

- POSC 305 Urban Government and Politics (3)
- POSC 375 Public Administration (3)
- POSC 470 Special Topics course (3)
- POSC 482 Public Policy Analysis (Seminar or lecture course) (3)

Double Major: Political Science and Geography

Students electing to major in both Political Science and Geography must complete major requirements in both departments. If you follow the outline below, you could complete these two majors with 60 credits of Geography and Political Science courses. Completing these two majors separately usually requires a minimum of 72 credits (36 credits in Geography and 36 credits in Political Science).

Students in the Geography and Political Science double major program must complete all requirements for the major in both departments.

I. Required Courses: Political Science - (12 credits)

- 9 Credits from list A
- 3 Credits from list B

A. At least three of the following courses with no more than one of the 200 level

- POSC 101 Introduction to Political Science
- POSC 103 American National Government
- POSC 105 Governments of the World
- POSC 107 Introduction to International Relations
- POSC 207 State Government
- POSC 209 Introduction to Law

B. One of the following 3 credit seminars:

- POSC 455 Sem. Internat'l Law & Organiz. I
- POSC 456 Sem. Internat'l Law & Organiz. II
- POSC 457 Sem. Use of Force in Internat'l Law
- POSC 482 Seminar in Political Science
- POSC 483 Seminar: Politics & The News Media
- POSC 485 Seminar: Democratic Theory
- POSC 486 Seminar: Justice & Law
- POSC 488 Seminar: Topics in Public Policy
- POSC 491 Seminar: Contemporary US Foreign Policy

II. Elective Courses: Political Science (24 credits)

- A. Twenty-four credits of upper-division courses in three of the following four topical areas of Political Science
 1. Comparative Politics
 2. International Politics
 3. American Government & Public Administration
 4. Law and Political Theory

B. The Political Science Department will accept two of the following Geography courses towards the fulfillment of the required 24 upper division credits.

- GEOG 317 Energy Resources
- GEOG 355 Hist. Geography of Urbanization
- GEOG 359 Economic Geography
- GEOG 381 Political Geography
- GEOG 385 Population Geography
- GEOG 391 Urban Systems
- GEOG 393 Transportation & Infrastructure Plng
- GEOG 405 Comprehensive Planning
- GEOG 431 Geography of Africa
- GEOG 461 Geography of Latin America
- GEOG 470-79 Seminar in Geography, (Topic to be approved by the Political Science Department)

III. Required Courses: Geography (21 credits)

A. Core Courses (15 credits)

- GEOG 101 Physical Geography
- GEOG 102 World Regional Geography or 105 Geog. of International Affairs or 109 Introduction to Human Geography
- GEOG 221 Interpretation of Maps
- GEOG 375 Quantitative Methods
- GEOG 401 Growth of Geographic Thought

B. Group Requirements (6 credits)

1. Techniques Courses (at least one of the following):

- GEOG 321 Interpretation of Aerial Photographs
- GEOG 323 Cartography & Graphics I
- GEOG 473 Computer Graphics

2. Regional Course (at least one of the following):

- GEOG 420 Geography of Anglo-America
- GEOG 423 Geography of Maryland
- GEOG 424 Hist. Geog. of Atlantic Canada
- GEOG 431 Geography of Africa
- GEOG 443 Geography of East Asia
- GEOG 445 Geography of South and Southeast Asia
- GEOG 447 Geography of the Middle East
- GEOG 448 Conflict in Ireland
- GEOG 451 Geography of Europe
- GEOG 453 Geography of the Former USSR
- GEOG 461 Geography of Latin America

IV. Elective Courses: Geography (15 credits)

A. Elective courses reflect a student's area of interest. These 15 credits are selected from 200-400 level geography courses (a maximum of 6 credits may be taken at the 200 level).

B. The Geography Department will accept two of the following Political Science courses towards fulfillment of the 15 credits of electives in the Geography Major:

- POSC 303 Theory of International Politics
- POSC 305 Urban Government & Politics
- POSC 307 Contemporary International Politics
- POSC 337 Comparative Government of Foreign Powers: The Western World
- POSC 340 Comparative Public Policy
- POSC 341 African Government & Politics
- POSC 351 The Government and Politics of Latin America
- POSC 355 The Latin American Policy of the US
- POSC 385 Model Organization of American States
- POSC 435 Africa in World Politics
- POSC 441 Contemporary US-European Relations
- POSC 445 US Foreign Policy in South Asia
- POSC 470-79 Special Topics in Political Science (Topic to be approved by the Geography Department)
- POSC 488 Seminar Topics in Public Policy

TRANSFER CREDIT POLICY

A student who transfers to Towson University with senior standing is expected to complete a minimum of 15 credits of upper-division political science courses. Those who transfer below senior standing normally will be expected to complete 24 credits of upper-division political science courses at Towson University.

CAREERS IN POLITICAL SCIENCE

Political science majors generally prepare themselves, at the undergraduate level, for careers in law, government (federal, state and local), service in public and private interest groups, business, journalism and the media, as well as research and teaching at various levels of the education system.

STUDENT OPPORTUNITIES

Activities

In addition to its academic curriculum, the department offers opportunities providing a broad range of related experiences. Classes travel to Annapolis and Washington, D.C., to observe first hand the political workings of government. The annual Earle T. Hawkins Symposium on International Affairs brings to campus noted scholars to lecture on topics of contemporary relevance. Political science majors are given the opportunity to edit the Towson Journal of International Affairs, one of the few undergraduate journals in this country.

Internships

Students contemplating careers in politics are invited to apply for an internship in which they serve as aides to local and federal legislators and administrators.

Department of Psychology

Professors: BASS, FIGLER, FURUKAWA, JOHNSON, JOSSELSOHN,

MILLER, PARENTE, PETRI, SANDERS, SINNOTT, SLATER

Associate Professors: ANDERSON, BATESON, DICESARE, FAULKNER, FROMAN, GOVERN, KRUGGEL, RABIN, WEBSTER

Assistant Professors: AYERS, FINK, (Chair), FRACASSO, GALUPO, LAVIN, RAVAL, WHEELER, ZWEBACK

Visiting Associate Professor: COWIE

Visiting Assistant Professor: ORGEL

Adjunct Faculty: ABATE, BECK, BURGE, CLEMENT, COLLINS, CRAIG, DAVANI, DEL NERO, EVENSEN, FINK, FINLEY, FLUM, FULCHER, GEHRING, GRAU, HARNETT, HARRIS, HAUSERMAN, HENSCHEN, HICKEY, HOFFMAN, HOLZMAN, HOUSER, JACOBSON, JAHN, LARSON-DAUGHERTY, LASSON, LEYHE, MAJESKI, MARX, MARTIN, MC CRANEY, MC DERMOTT, MC NALLY, MC MAHON, MESSEMER, MIRON, MONAHAN, MUELLER, NEMEROFSKY, NICOLL, NOLDER, NOONBERG, OIDICK, QUINN-STABILE, RICHARD, ROCKWOOD, ROWLAND, SCHINITZKY, SCHUMAN, SCULLY, D. SHAPIRO, N. SHAPIRO, SHUE, SPENCER, STRAUB, STYRT, VAETH, WEBSTER, WEISS, WELZANT, WILLEN, YAFFE, ZARCONE

OFFICE

Psychology Building, Room 200, (410) 830-2634

PROGRAMS OF THE DEPARTMENT

The Department of Psychology offers the following programs: the *major in Psychology*; the *minor in Psychology*; and the *Clinical Concentration program for Psychology majors*.

The major in Psychology prepares students for graduate work in psychology, for training in special education and general education, for careers requiring a liberal arts background, and for work in clinical services.

MAJOR IN PSYCHOLOGY

Majors are required to complete 32 credits in Psychology with a grade of "C" or higher, including 23 credits of required courses and 9 nine hours of electives (No Pass/D/F grades accepted). Of the 23 required credits, 11 are to be completed in the core courses by taking 101 or 102, 212, and 314. The remaining 12 required credits are to be completed by taking one course in each of the four topical areas: "Human Development," "Clinical-Social," "Biopsychology," and "Learning-Cognition."

Requirements for the Major

Core Courses (11 credits)

The following 11 credits are required:

PSYC 101 Introduction to Psychology (3)

or

PSYC 102 Honors Introduction to Psychology (3)

PSYC 212 Behavioral Statistics (4)

PSYC 314 Experimental Psychology (4)

Topical Areas (12 credits)

Human Development

One of the following is required:

PSYC 330 Psychology of Individual Differences (3)

PSYC 403 Psychology of Infancy & Childhood (3)

PSYC 404 Adolescent Psychology (3)

PSYC 405 Psychology of Aging (3)

PSYC 447 Sex Differences: Psychological Perspectives (3)

PSYC 451 Introduction to the Exceptional Child (3)

PSYC 467 Midlife Development (3)

Clinical-Social

One of the following is required:

PSYC 311 Behavior Modification (3)

PSYC 325 Social Psychology (3)

PSYC 327 Industrial Psychology (3)

- PSYC 341 Environmental Psychology (3)
- PSYC 350 Personality (3)
- PSYC 361 Abnormal Psychology (3)
- PSYC 409 Organizational Psychology (3)
- PSYC 411 Tests and Measurements (3)
- PSYC 421 Applications of Behavioral Principles to Family and Classroom Environments (3)
- PSYC 431 Group Dynamics (3)

Biopsychology

One of the following is required:

- PSYC 317 Sensation and Perception (3)
- PSYC 460 Ethology and Comparative Psychology (3)
- PSYC 465 Physiological Psychology (3)

Learning-Cognition

One of the following is required:

- PSYC 305 Psychology of Learning (3)
- PSYC 315 Motivation (3)
- PSYC 461 Cognitive Psychology (3)

Electives (9)

The remaining 9 elective credits may be selected from any 200, 300, or 400 level psychology courses. Electives may include other courses from the topical areas not selected as requirements or any other psychology course listed in the catalog with the exception of PSYC 211 and PSYC 230.

Clinical Concentration Program for Psychology Majors

The Clinical Concentration program offers training in clinical psychology leading to a bachelor's degree in psychology from Towson University and a certificate in Mental Health from the Education Center of the Sheppard and Enoch Pratt Hospital. The program provides a four-semester course sequence, beginning in the first term of the junior year. Courses are organized around practicum experience with extensive supervision so that there is unbroken continuity between theory and practice of clinical skills. This is a selective program for which students must apply by February 25 of their sophomore year.

The curriculum requirements consist of three components: General Education requirements and Psychology Department requirements; two prerequisite courses which must be completed during the sophomore year and before entry into the program, Abnormal Psychology and Introduction to the Helping Relationship; and the following Clinical Concentration program courses.

SEMESTER 1

- PSYC 430 Systems and Techniques of Psychotherapy (3)
- PSYC 439 The Initial Interview (3)

SEMESTER 2

- PSYC 453 Issues in Mental Health Intervention (2)
- PSYC 454 Internship in Psychotherapy (4)

SEMESTER 3

- PSYC 431 Group Dynamics I (3)
- PSYC 454 Internship in Psychotherapy (4)

SEMESTER 4

- PSYC 433 Group Psychotherapy Internship (3)
- PSYC 454 Internship in Psychotherapy

MINOR IN PSYCHOLOGY

Minors are required to complete 23 credits in psychology with a grade of "C" or higher in each course. Of these 23 credits, 11 credits are to be completed in the core courses, and 3 credits are to be completed in the topical area, "Learning-Cognition." The remaining 9 credits are electives and may be selected from any of the 200, 300, or 400 level psychology courses with the exception of PSYC 211 and PSYC 230.

TRANSFER CREDIT POLICY

Students entering TU from another institution may transfer up to a maximum of 15 credits toward the major and 10 credits toward the minor in psychology upon approval by the department chair.

HONORS IN PSYCHOLOGY

The Department of Psychology seeks to give special recognition to students for academic excellence through its Honors Program. The guiding philosophy of the program is to provide the student with a specialized learning experience in both scholarly investigation and scholarly writing. The student who completes an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science with Honors in Psychology. Departmental honors will also appear on the student's transcript.

The program is developed for the junior and senior years and includes six to seven credit hours in PSYC 381 and PSYC 491. A colloquium presentation based on the Senior Thesis PSYC 499 is required. An honors candidate will also be required to take the Graduate Record Examination and is expected to achieve no less than the 50th percentile on the Aptitude Test (Verbal and Quantitative) and no less than the 70th percentile on the Area Specialization Test in Psychology. To be admitted to the program a student must present an overall cumulative average of 3.25 with a cumulative average of 3.50 in Psychology. To graduate from a program the recipient of the honors degree must maintain as a minimum the aforementioned cumulative averages. For additional procedural details contact the department's Honors Coordinator.

MASTER OF ARTS IN PSYCHOLOGY

The Master of Arts in Psychology is designed for students who are primarily interested in an advanced degree in Experimental Psychology, School Psychology, Clinical Psychology or Counseling. For detailed information, see the *Graduate Catalog*.

DEPARTMENT ANIMAL POLICY

In accordance with Federal laws and regulation, Towson University, through its Institutional Animal Care and Use Committee, reviews the use of animals in teaching to assure compliance with the standards established by the USDA and NIH for the humane treatment of animals. The University makes every effort to minimize the use of animals and seeks alternatives wherever possible. While Towson University recognizes that some students may believe that use of animals as teaching tools is inhumane, certain curricula require the use of animals as a necessary part of instruction. Accordingly, where the use of animals in class demonstrations or experiments is a requirement for successful completion of any course, as determined by the department, the student will be obliged to comply with those requirements as set forth by the instructor in the course syllabus. The University shall not provide optional procedures for students who do not comply with course requirements.

If a course requires the use of animals in class demonstrations or experiments, however, the syllabus shall specifically state that animals will be used in class demonstration or experiments and that such use is a requirement for successful completion of the course. Notice of this requirement shall be made a part of the course description and shall be placed in the University catalog.

Social Sciences Program

Advisory Committee: MARTIN, (History); MARZOTTO, (Political Science); SCOTT, (Geography); KONG, (Economics); LAWLOR, (Secondary Education)

OFFICE

Lecture Hall, Room 1, (410) 830-2330

THE PROGRAM

The Social Sciences program is an interdepartmental major offering courses from the Departments of Economics, Geography, History, Political Science, and Sociology and Anthropology.

The program is designed for those students who do not wish to major in a single discipline, but are interested in a broad education, transcending traditional department boundaries. It is useful for those students who plan to enter graduate school for an advanced degree in one of the disciplines of the program; for those students who plan to enter professional schools for a degree in law, social service, or a phase of law enforcement as well as those students who seek a broad background in preparation for employment in business, industry, or a government agency. It is particularly designed for students planning to teach social studies at the secondary school level.

A coordinator administers the program, and faculty from the Departments of Economics, Geography, History, Political Science, and Sociology and Anthropology advise students majoring in the program. Policies and requirements for the majors in Social Science are established by an advisory committee composed of representatives from the various disciplines included in the program.

The major offers the student the choice of two Social Science programs: a Social Science major in Secondary Education or a Social Science major in Liberal Arts. The Bachelor of Arts degree may be earned in either Social Science program by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate courses of a modern foreign language or its equivalent.

MAJOR IN SOCIAL SCIENCE

Social Science majors must complete 60 credits with a grade of "C" or higher from among the following courses. The General Education requirements must also be fulfilled.

Requirements for the Major

Required Courses (30 credits)

Two of the following

- HIST 145 History of United States to Mid-Nineteenth Century (3)
- HIST 146 History of United States Since Mid-Nineteenth Century (3)
- HIST 241 History of European Civilization Through Seventeenth Century (3)
- HIST 242 History of European Civilization From Seventeenth Century (3)

One of the following

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 109 Intro. to Human Geography (3)

One of the following

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 105 Geography of International Affairs (3)
- GEOG 109 Intro. to Human Geography (3)
- GEOG 221 Interpretation of Maps (3)
- GEOG 299 Intro. to Source Materials and Research in Geography (3)

Two of the following

- POSC 101 Intro. to Political Science (3)
- POSC 103 American National Government (3)
- POSC 105 Governments of the World (3)
- POSC 107 Intro. to International Relations (3)
- POSC 207 State Government (3)

All of the following

- ANTH 207 Cultural Anthropology (3)
- ANTH 201 Microeconomic Principles (3)
- ANTH 202 Macroeconomic Principles (3)
- SOCI 101 Introduction to Sociology (3)

Upper-Division Requirements (24 credits)

Students must complete two courses in each of four disciplines of the six disciplines in the program at the upper-division level (300- or 400-level). At least 12 credits of upper-division courses must be taken at Towson University.

Electives

Select six credits of upper- or lower-division courses in any of the six disciplines in the program.

SOCIAL SCIENCE: SECONDARY EDUCATION

Social Science majors in this Secondary Education program receive certification to teach social science at the secondary level in Maryland upon graduation. See Secondary Education Department requirements. In addition to the General Education requirements, and the requirements specified by the Department of Secondary Education, students must complete 54 credits with a grade of "C" or higher from among the following courses.

Requirements for the Major

Required Courses (45 credits)

- ANTH 207 Cultural Anthropology (3)
- ECON 201 Microeconomic Principles (3)
- ECON 202 Macroeconomic Principles (3)
- GENL 401 Topics in Social Science (3)
- HIST 145 History of United States to Mid-Nineteenth Century (3)
- HIST 146 History of United States Since Mid-Nineteenth Century (3)
- HIST 241 History of European Civilization Through Seventeenth Century (3)
- HIST 242 History of European Civilization From Seventeenth Century (3)
- HIST xxx African, Asian or Latin American History course (3)
- HIST xxx History Course (3)
- POSC 103 American National Government (3)
- SOCI 101 Introduction to Sociology (3)

One of the following

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 109 Intro. to Human Geography (3)

One of the following

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 105 Geography of International Affairs (3)
- GEOG 109 Intro. to Human Geography (3)
- GEOG 212 Interpretation of Maps (3)
- GEOG 299 Intro. to Source Materials and Research in Geography (3)

One of the following

- POSC 101 Intro. to Political Science (3)
- POSC 105 Governments of the World (3)
- POSC 107 Intro. to International Relations (3)
- POSC 207 State Government (3)

Electives

Select three additional upper-division electives (300- or 400-level) from any of the disciplines in the program. The upper-division courses must be taken at Towson University.

TRANSFER CREDIT POLICY

Transfer students in the Social Science program are required to earn at Towson University a minimum of one-half the total number of credits required for the major.

Department of Sociology and Anthropology

Professors: EDELSTEIN, LEONS, NIXON, (*Chair*): ROTHSTEIN,

SEDLACK, J. STANLEY, S. STANLEY, WAGNER

Associate Professors: FISHER, JONES, WOLF

Assistant Professors: COCKEY, PRYOR SCHEPER

Lecturer: GARCIA

Adjunct Faculty: BURESH, BURT, COLLINS, COZART, FEDER-ALFORD,

FEIN, GUTTMANN, HOPKINS, KALFSBEEK, KOFIE, LUCE, LYMAN,

MC QUAY, RUBENSTEIN, SCHWARTZ, SMITH, TOPEL, WALL

OFFICE

Linthicum Hall, Room 318E, (410) 830-2852

PROGRAMS OF THE DEPARTMENT

The Department of Sociology and Anthropology offers four concentrations whose differing requirements reflect the varied nature of the professional disciplines represented. All are intended to acquaint students with methods and perspectives necessary to understand the society in which they live as well as societies with which they may have been unfamiliar. All are designed to prepare the student for entry-level occupational positions, and all provide the knowledge and skill necessary for acceptance by appropriate graduate and professional schools.

For all concentrations, the Bachelor of Arts degree may be earned by adding a foreign language to the major requirements. The language requirement can be met by completing the intermediate courses of a modern language or the equivalent.

Towson University does not offer an undergraduate program approved by the State of Maryland for certification in social work. However, many students continue their education at another university in order to obtain the Masters in Social Work degree required for higher level positions in that field.

MAJOR IN SOCIOLOGY

Students majoring in Sociology - Anthropology may choose from four areas of concentration: Sociology, Anthropology, Gerontology, or Corrections. The requirements for each concentration are listed below.

SPECIAL RECOMMENDATIONS FOR MAJORS

Superior students are encouraged to undertake the sequence of courses which allows for graduation with honors in the department. See the honors advisor, Dr. Jones, in your freshman or sophomore year for information.

For concentration in Sociology, it is strongly recommended that the Statistics course (MATH.231 or PSYC 212) be taken no later than the first semester of the junior year.

Students interested in Law Enforcement should consult Dr. Toland, who serves as advisor for this program.

Internship

All majors should acquaint themselves as early as possible with the opportunities provided by the Internship (SOCI.491 & 492; ANTH.491 & 492) for placement in agencies dealing with law enforcement and corrections, aging, family planning and counseling, social services and medical social work, alcoholism, child care and drug abuse, and other aspects of social life in the Baltimore metropolitan area. Course credit is obtained as well as familiarization with potential careers and valuable experience which enhances later job applications. A fee is assessed upon each student participating in the Internship. Each year, the Lieberman Endowment provides an award to the best intern.

Sociology Concentration

The concentration in Sociology requires 36 credits completed with a grade of "C" or higher. A minimum of 12 of the required 36 credits

must be taken at Towson University. Students are reminded that an advanced writing course is required to fulfill the General Education requirements.

Required Courses

SOCI 101 Introduction to Sociology (3)

SOCI 381 Sociological Theory (3)

SOCI 391 Research Methods (3)

One of the following two courses

MATH 231 Basic Statistics I (3)

PSYC 212 Behavioral Statistics (4)

Electives

Students must complete 24 hours of electives offered by the department, at least 18 of which must be upper-division. Two Anthropology courses may be credited to the required 24 hours of electives. See concentration coordinator.

Anthropology Concentration

The concentration in Anthropology requires 30 credits completed with a grade of "C" or higher. A minimum of 12 of the required 30 credits must be taken at Towson University.

Required Courses

ANTH 207 Cultural Anthropology (3)

ANTH 208 Human Evolution & Prehistory (3)

ANTH 401 Anthropological Theory (3)

Electives

Students must complete 21 hours of electives offered in Anthropology, 15 of which must be upper-division. The following courses may be credited to the required 21 hours of electives.

SOCI 381 Sociological Theory (3)

SOCI 391 Research Methods (3)

ENGL 350 Comparative Grammar (3)

ENGL 351 Historical Linguistics (3)

ENGL 352 Structural Linguistics (3)

One of the following

MATH 231 Basic Statistics I (3)

PSYC 212 Behavioral Statistics (4)

Gerontology Concentration

The Gerontology concentration is an interdisciplinary area of study. While the emphasis of courses in sociology is on aging in a social context, attention is also directed to understanding the interaction of the social with physical and psychological aspects of the aging process. Courses in other departments such as Health and Psychology are valuable supplements to students' general understanding of the aging experience. The Internship provides the opportunity for integration of theoretical and practical concerns and familiarizes students with potential career opportunities. The course of study is designed to prepare students for employment in service-oriented agencies and organizations which are involved in research and planning for facilities, services, and opportunities for the aged. Due to demographic and other factors, the field of gerontology is a future growth area.

Substitution of courses in any category may be made with the permission of the concentration coordinator. Students are reminded that an advanced writing course is required to fulfill the General Education requirements. Currently, none is offered as part of the Gerontology concentration. Anthropological Theory (ANTH 401) and Introduction to Criminal Justice (WRIT 354) are available within the department; however, the student may select an advanced writing course from those *approved* in other departments. Students are advised to take the prerequisites for the course in the program as early as possible.

The concentration in Gerontology requires 39 credits completed with a grade of "C" or higher. A minimum of 12 of the required 39 credits must be taken in residence at Towson University.

Required Courses

- SOCI 101 Introduction to Sociology (3)
 SOCI 359 Social Gerontology (e)
 SOCI 360 Sociology of Aging (3)
 SOCI 361 The Aging Worker (3)
 SOCI 367 Sociology of Death, Dying & Bereavement (3)

Two of the following

- SOCI 329 Demography (3)
 SOCI 362 Basic Methods in Human Services Practice (3)
 SOCI 391 Research Methods (3)

Two of the following

- EDUC 470 Special Topics in Education: Aging (3)
 ENGL 471 Topics in World Literature (3)
 GEOG 329 Medical Geography (3)
 GEOG 407 The Geography of the Aged (3)
 HLTH 411 Health and Later Maturity (3)
 PSYC 405 Psychology of Aging (3)
 PSYC 470-79 Seminars in Psychology: Selected Topics:
 Psychology of Death (3)
 SPPA 476 Special Topics Seminar in Speech/Language Pathology
 & Audiology: Aging & Communication (3)

Three of the following

- SOCI 301 The Family (3)
 SOCI 311 Individual and Society (3)
 SOCI 313 Introduction to Social Psychology (3)
 SOCI 329 Demography (3)
 SOCI 335 Medical Sociology (3)
 SOCI 339 Community Organizations (3)
 SOCI 357 Social Welfare (3)
 SOCI 362 Basic Methods in Human Services Practice (3)
 SOCI 370-75 Topics in Sociology: Social Security in Action (3)
 ANTH 209 Anthropology of American Culture (3)

or

- ANTH 211 Honors Anthropology of American Culture (3)

One of the following

- SOCI 491 Internship in Sociology I (3)
 SOCI 492 Internship in Sociology II (3)

Note that two courses are listed in more than one group: SOCI 329 (Demography) and SOCI 362 (Basic Methods in Human Services Practice). Each of these courses may count once toward just one of the requirements.

Corrections Concentration

The Corrections concentration is a cross-disciplinary area of study emphasizing counseling and social service skills. Although designed for students working with prisons, probation and parole, it is also appropriate for those interested in juvenile services, social services, crisis intervention and drug treatment programs. Through courses in Sociology and Psychology, the student will learn alternative problem solving mechanisms for service and support agencies. Emphasis is placed on the social milieu of the clientele as well as on the organizations which provide the services. Courses in other departments such as Health will provide additional expertise for specific problems faced in the service agencies. Since there is concern for both the theoretical and practical aspects of interpersonal relationships and deviancy, the concentration provides job related experiences through the Internship.

Substitutions of courses in any category may be made with permission of the Concentration Coordinator. Students are reminded that an advanced writing course is required to fulfill the General Education requirements. Introduction to criminal Justice, if taken as WRIT 354, will satisfy this writing requirement for majors in the Corrections concentration. Students are advised to take the prerequisites for the courses in the program as early as possible.

The Corrections concentration requires 45 credits completed with a grade of "C" or higher. A minimum of 12 of the required 45 credits must be taken in residence at Towson University.

Required Courses*All of the following*

- SOCI 343 Minority Groups (3)
 SOCI 353 Criminology (3)

- SOCI 356 Corrections in America (3)
 SOCI 370-79 Topics in Soci.: Sociology of Law (3)
 SOCI 391 Research Methods (3)
 SOCI 491 Internship in Sociology I (3)

One of the following

- ANTH 209 Anthropology of American Culture (3)
or
 ANTH 211 Honors Anthropology of American Culture (3)
 SOCI 311 Individual & Society (3)
 SOCI 313 Introduction to Social Psychology (3)
 SOCI 331 Organizations (3)
 SOCI 339 Community Organization (3)
 SOCI 357 Social Welfare (3)

One of the following

- SOCI 351 Social Deviance (3)
 SOCI 354 Intro to Criminal Justice (3)
 SOCI 355 Juvenile Delinquency (3)
 SOCI 370-79 Additional Topics Courses approved by advisor (3)

Any three courses from among the following

- PSYC 205 Intro to the Helping Relationship (3)
 PSYC 429 Intro to the Counseling of Minorities (3)
 PSYC 430 Systems & Techniques of Counseling Practice (3)
 SOCI 330 Vocational Rehabilitation (3)
 SOCI 362 Basic Methods in Human Services Practice (3)
 SOCI 363 Jobs and Joblessness (3)
 SOCI 365 Issues in Youth Unemployment (3)
 SOCI 369 Group Vocational Counseling (3)

One of the following

- PSYC 350 Personality (3)
 PSYC 361 Abnormal Psychology (3)
 PSYC 404 Adolescent Psychology (3)

Three of the following with at least one in Health

- HLTH 208 Mental Health (3)
 HLTH 221 Human Sexuality (3)
 HLTH 405 Drugs in Our Culture (3)
 POSC 209 Introduction to Law (3)
 POSC 305 Urban Government & Politics (3)
 POSC 375 Public Administration (3)
 POSC 470-79 Spec. Topics: Women and the Law (3)
 PSYC 203 Human Development (3)

MINOR IN ANTHROPOLOGY

The minor in Anthropology consists of 24 hours in anthropology, at least 12 of which must be upper-division.

Required Courses

- ANTH 207 Cultural Anthropology (3)
 ANTH 208 Human Evolution & Prehistory (3)
 ANTH 401 Anthropological Theory (3)

MINOR IN SOCIOLOGY

The minor in Sociology consists of 24 hours of sociology, at least 12 of which must be upper-division.

Required Courses

- MATH 231 Basic Statistics I (3)
or
 PSYC 212 Behavioral Statistics (4)
 SOCI 101 Introduction to Sociology (3)
 SOCI 381 Sociological Theory (3)
 SOCI 391 Research Methods

SOCIOLOGY AND GEOGRAPHY

Students interested in sociology and geography should consider majoring in both disciplines. These two social science departments have developed a cooperative program in which it is possible to have a major in one discipline and a second major in the other. For further information and counseling, contact the Sociology and Anthropology Department.

TRANSFER CREDIT POLICY

Transfer of courses from the Department of Sociology and/or Anthropology in public colleges and universities in Maryland are routinely made. Transfers from other institutions are made upon assessment of each individual course and institution. For courses taken in departments other than those labeled Sociology or Anthropology, for which a student seeks credit, evidence as to content and qualifications of the instructor is generally required. A minimum of 12 of the required credits in each concentration must be taken at Towson University.

GRADUATION WITH HONORS

With the support of the Lieberman Endowment, funded by Dr. & Mrs. Sidney Lieberman, the Department honors the best academic performance among graduating seniors in each of its concentrations. The outstanding student within that group receives the Lieberman Award for the most notable academic achievement for a major in the graduating class. Additional honors are bestowed for special achievement in research. Seniors are urged to consult with Dr. Jones early in their last semester before graduation.

These awards are exclusive of those granted for successful completion of the university sponsored Honors program which involves performance in a sequence of honors courses in sociology. (See section "Special Recommendations for Majors.")

THE GOLDBERG AWARD FOR ACHIEVEMENT IN SOCIOLOGICAL RESEARCH

The Irwin Goldberg Endowment for Sociology sponsors the Goldberg Award for Achievement in Sociological Research, for a major in the discipline of sociology who has written the paper most reflective of the principles and practices of the sociological method.

SOCIOLOGY HONOR SOCIETY

Students concentrating in sociology with junior or senior status may qualify for membership in the Theta of Maryland chapter of Alpha Kappa Delta, the national honor society of sociologists. A grant from the Lieberman Endowment, funded by Dr. and Mrs. Sidney Lieberman, subsidizes student membership fees. Interested students should consult Dr. Jay Stanley, faculty advisor to the chapter.

Interdisciplinary Program in Women's Studies

Associate Professor: PILARDI (Program Coordinator; Joint Appointment, Philosophy and Women's Studies)

Assistant Professor: WANGARI

Instructor: BERIS

Departmental Teaching Faculty: ALLEN (Health Science); BRUMFIELD (History); CHRISTIAN (Philosophy and Religious Studies); COCKEY (Sociology); COULTER (English); EDGINGTON (English); FAULKNER (Kinesiology/Psychology); C. GISSENDANNER (History); J. GISSENDANNER (English); GALUPO (Psychology); GREENE (English); S. ISAACS (Art); KENNARD (Kinesiology); LAURENCE (Economics); LEVIN (History); LOESCHKE (Theatre); MULQUEEN (Speech and Mass Communication); NEWMAN (English); PIPPEN (English); RABIN (Psychology); ROMERO (History); ROTHSTEIN (Anthropology); SHALLER (English); SLATER (Psychology); THOMPSON (Geography); WILKOTZ (English); WILLIS (Political Science)

Adjunct Faculty: BECKSTROM, DOERING, HECKNER, LOISELLE, SHUMAN, STONE, THOMPSON

Associates to Women's Studies Program: MOWER (Library Liaison);

SCHOFIELD (Director, Women's Center); VANFOSSEN (Director, Institute for Teaching and Research on Women)

OFFICE

Linthicum Hall, Room 301C, (410) 830-2660

THE PROGRAM

The Women's Studies major is an interdisciplinary program which offers students the opportunity to study the status and roles of women as individuals and as members of society. Courses emphasize both commonalities among women and differences according to race, ethnicity, class and sexual preference. The major consists of 12 hours in a core curriculum of four interdisciplinary courses, plus a minimum of 18 hours selected from other courses in women's studies. Each program is individually tailored to the needs and interests of the student. Students must consult with a Women's Studies faculty advisor to plan their program.

The Women's Studies program is administered by a Coordinator and planned by a steering committee. Other faculty members may serve as advisors to students majoring in the program.

The following interdisciplinary and departmental women's studies courses are currently in the curriculum. The departmental courses can be taken as electives for departmental credit and/or applied to the major in women's studies. Some courses fulfill General Education requirements.

Requirements for the Major (30 Credits)**Required Core Courses (12 credits)**

WMST 231 Women in Perspective (3)

or

WMST 232 Honors Seminar: Women in Perspective (3)

WMST 332 Women's Culture and Creativity (3)

WMST 335 Women, Work, and Family (3)

WMST 337 Feminism (3)

Elective Courses

Majors must complete a minimum of 18 additional credits in Women's Studies selected from any of the courses below. Twelve hours must be taken at the 300-400 upper-division course level. (A minimum of 32 upper-level credits are required for the Bachelor's degree.) It is strongly recommended that the student's program include at least one course in minority women or multicultural issues. The Internship in Women's Studies (WMST 496) is also strongly recommended.

Additional Women's Studies (WMST) Courses

WMST 233	International Perspectives on Women GenEd II.D.
WMST 333	Women's Words, Women's Lives (3) Gen Ed I.D
WMST 336	Women and Medicine (3)
WMST 338	Women and Sexuality (3)
WMST 339	Reproductive Technologies and the Future of Motherhood (3) Gen Ed II.A.2.
WMST 370	Topics in Women's Studies (3)
WMST 481	Directed Readings for Honors in Women's Studies (3-4)
WMST 485	Seminar in Women's Studies (3)
WMST 491	Directed Readings in Women's Studies (1-4)
WMST 496	Internship in Women's Studies (3 or 6)
WMST 499	Honors Thesis (3)

Departmental Women's Studies Courses**Art**

ART 341	Women in Art (3)
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Economics

ECON 374	Economic Issues of Gender (3)
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Education

EDUC 463	Sex Role Development in the Schools (3)
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English

ENGL 290	Honors: Emily Dickinson GenEd II.C.1
ENGL 347	World Literature Written in English: Selected Indian, African and Caribbean Novels by Women (3)
ENGL 370	Special Topics: Literature of Women (3)
ENGL 370	Themes in Literature: Women in Medieval Literature (3)
ENGL 371	Women Poets: Themes and Images (3)
ENGL 372	Women Writers (3)
ENGL 373	Themes in Literature: The "New Woman;" Sex and Social Change in American Literature (3)
ENGL 472	Topics in British Literature: Virginia Woolf
ENGL 477	Topics in Black Literature: African-American Women Writers (3)

Geography

GEOG 473	Geography of Women
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Health Science

HLTH 440	Perspectives on Rape and Sexual Assault (3)
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History

HIST 306	Women in Twentieth Century U.S. History (3)
HIST 321	Gay and Lesbian U.S. History (3)
HIST 384	Life Histories of African Women
HIST 484	Historical Themes: African-American Women in History (3)
HIST 484	Historical Themes: Minority Women (3)
HIST 484	Historical Themes: Modern European Women (3)
HIST 484	Historical Themes: Third World Women (3)
HIST 484	Historical Themes: Women in the Ancient Near East

Modern Language

SPAN 471	Spanish-American Women Writers (3)
SPAN 472	Special Topics in Spanish: Latin-American Women Writers (3)

Music

MUSC 205	Women in Music (3) GenEd II.C.3
MUSC 479	Special Topics in Music Literature: Women in Music (3)

Philosophy

PHIL 205	Women in World Religions (3)
PHIL 331	Concepts of Woman: An Historical Approach (3)
PHIL 332	Feminist Philosophy (3)
PHIL 38-	Philosophical Topics: Simone de Beauvoir: Existentialism and Feminism (3)

Political Science

POSC 47-	Special Topics in Political Science: Women and the Law (3)
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Physical Education

PHEC 441	The American Women in Sport (3)
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Psychology

PSYC 447	Sex Differences: Psychological Perspectives (3)
PSYC 457	Gender Identity in Transition (3)
PSYC 449	The Psychology of Lesbian Culture (3)
PSYC 47-	Psychology of Women

Sociology and Anthropology

ANTH 321	Gender in Cross-Cultural Perspective (3)
ANTH 37-	Latinas in the Americas (3)
SOCI 37-	Topics in Sociology: Women and the Criminal Justice System (3)

Speech and Mass Communication

MCOM 205	Images of Women in Film (3)
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Theatre Arts

THEA 305	Feminist Theatre (3)
THEA 405	Acting and Writing for Feminist Theatre (3)

THE MINOR IN WOMEN'S STUDIES

Students may wish to major in a traditional subject (history, English, sociology) but minor in women's studies. Some students plan to do graduate work in a traditional discipline, with emphasis on women within it.

Requirements for the Minor (18 Credits)

WMST 231	Women in Perspective (3)
or	
WMST 232	Honors Seminar: Women in Perspective (3)
plus	
	15 hours in departmental or women's studies (WMST) courses, at least 12 hours of which shall be upper-division.

TRANSFER CREDIT POLICY

Students may transfer no more than 12 of the 30 credits required for the Women's Studies major, and no more than 6 of the credits required for the minor in Women's Studies.

HONORS PROGRAM; OTHER ACTIVITIES

Honors work is available to students with a Women's Studies major. Interested students may consult the Women's Studies Coordinator for information, preferably during their sophomore year. See information on Honors College elsewhere in this [Catalog](#).

The Women's Studies Program also provides a Women's Studies Colloquium series each semester with speakers from the University or off campus.

Women's Studies students are also welcome to participate in *Ladysmith*, a feminist literary magazine, and in The Feminist Collective, a student organization.

In alternate years, the Women's Studies Program awards the Guess Scholarship for achievement in writing.







The College of Natural and Mathematical Sciences

The College of Natural and Mathematical Sciences recognizes its special role in providing the education required by today's scientifically and technologically based society. Students are offered well-balanced programs in all the traditional physical, mathematical, and life science disciplines. Majors are available in: Biology, Chemistry, Computer and Information Sciences, Mathematics, Natural Science and Physics. Minors are offered in: Biology, Chemistry, Computer Science, Mathematics, Applied Statistics and Physics. In addition, students may choose to concentrate in a variety of areas including: Engineering (dual degree with UMCP), pre-pharmacy, pre-physical therapy, pre-medicine, pre-dentistry, pre-veterinary medicine, geology, animal behavior and molecular biology. Students may also pursue studies leading to certification for teaching science or mathematics at either secondary or elementary levels.

The welfare of our society is dependent on the appropriate use of our resources through the applications of science. It is therefore of great importance that a scientific literacy be developed in all our citizens. The College of Natural and Mathematical Sciences plays an integral role in the implementation of this philosophy by providing a wide range of liberal arts based general education courses for all our students. The college provides quality instruction by professionally qualified faculty members, dedicated to excellence in teaching and scholarship. The college also recognizes its obligation to contribute to the cultural and economic well-being of the surrounding community.

David Brakke
Dean

COLLEGE OFFICE

Smith Hall
Room 312

College-Based Pre-Professional Preparation

DUAL-DEGREE ENGINEERING PROGRAM

The objective of the Dual Degree Program at Towson University is to provide an educational opportunity for students interested in both a "liberal science" and a professional education at the undergraduate level. Students choosing this program will be able to obtain a Bachelor of Science or Arts degree from Towson, and a Bachelor of Engineering degree from University of Maryland at College Park. In principle, students can seek a degree in any discipline offered by Towson; but in practice, Chemistry, Computer Science, Mathematics, and Physics are the natural choice of students interested in the Dual Degree program.

Dual degree candidates from Towson are eligible to seek a baccalaureate degree majoring in any one of the following areas at the University of Maryland:

Aerospace Engineering	Engineering Materials
Agricultural Engineering	Fire Protection
Chemical Engineering	Mechanical Engineering
Civil Engineering	Nuclear Engineering
Electrical Engineering	

In order to be eligible for transfer into the engineering program of his or her choice at University of Maryland, the student must have included in his or her work at Towson the following courses:

CHEM 101, 102	General Chemistry, I, II
COSC 165	Fundamentals of Computing
MATH 273, 274, 373	Calculus I, II, and III
MATH 374	Differential Equations
PHYS 241, 242, 243	Physics I, II, and III
PHYS 351, 451	Mechanics I, II
PHYS 354	Electricity and Magnetism I
or	
PHYS 352	Thermodynamics and Kinetic Theory

Students interested in Electrical Engineering are required to take PHYS 354, Electricity and Magnetism I, and PHYS 454, Electricity and Magnetism II is recommended but not required. In addition to the courses listed, students interested in Chemical Engineering are required to take CHEM 331 and 332, Organic Chemistry I, II. Students should consult the Physics Department for specific QPA requirements; normally students should maintain at least a 3.00 overall and above 3.00 in science and mathematics.

PRE-DENTAL AND PRE-MEDICAL REQUIREMENTS

Students who are interested in pursuing a career in medicine or dentistry should keep the following facts in mind in their undergraduate studies:

- Students must have an outstanding undergraduate record in order to be competitive for admission to medical school.
- Most students who enter medical school have a B.S. or B.A. degree, although a few very outstanding students are admitted to medical school with the minimum required 90 credits of university work. The same is true for dental school.
- Although the B.S. or B.A. degree may be in any discipline, students must complete the courses required by the professional schools as described in their catalogues.
- Usually students interested in medical school or dental school take the Medical College Admission Test (MCAT) or Dental Aptitude Test (DAT) one to one and one-half years in advance of entering professional school. Students must apply in advance to take these tests. Information about the tests and about applying for them can be obtained from the Biology Department Office, Smith Hall 341.
- Medical and dental schools usually require letters of recommendation from the student's undergraduate school. At Towson University, these letters are prepared by the Pre-medical and Pre-dental Committee.

For further information, the Pre-medical and Pre-dental Committee should be contacted as soon as possible after entering Towson University. Call or write to the Pre-medical and Pre-dental Committee, Department of Biological Sciences, Towson University, Towson, Maryland 21252; (410) 830-3042. Careful planning is essential.

PRE-PHARMACY REQUIREMENTS

A student planning a career in pharmacy may apply to a pharmacy school after taking or expecting to complete a total of 60 semester hours of university credit including the required core courses. Student averages are evaluated in the following four areas: (a) overall college work, (b) required core courses, (c) chemistry courses, and (d) mathematics and physics courses. In addition, an applicant is required to satisfactorily pass the Pharmacy College Admission Test (PCAT) followed by a personal interview by the admission committee of the pharmacy school.

Required core courses include six credits of English, six credits of mathematics (through Calculus I), four credits of biology, eight credits of physics, and 16-18 credits of chemistry. The remaining credits (18-20) include elective courses such as Introduction to Sociology, Economic Principles and Problems, Public Speaking, Modern Languages, Art, Music, General Psychology, Botany, Biology and Computer Programming.

A student interested in pharmacy as a professional career should consult with the pre-pharmacy advisor in the Department of Chemistry upon admission to Towson University. The student needs to plan a course program, declare an academic major, and become cognizant of the specific admissions requirements of the pharmacy college that he or she plans to attend. The recommended course schedule is based upon the requirements of the University of Maryland and is typical of most pharmacy schools, with the exception that some also include in their core courses requirements, six credits of biology and three credits of economics.

BIOL 110	Contemporary General Biology (FR) (4)
CHEM 101	General Chemistry I (FR) (4)
CHEM 102	General Chemistry II (FR) (4)
ENGL 102	Writing for a Liberal Education (FR) (3)
MATH 119	Pre-Calculus (FR) (4)
MATH 273	Calculus I (FR) (4)
	GenEd I.B course (FR) (3)
CHEM 331	Organic Chemistry I (SO) (5)
CHEM 332	Organic Chemistry II (SO) (5)
PHYS 211	General Physics I (SO) (4)
PHYS 212	General Physics II (SO) (4)
	(Physics 241 and 242 can be substituted for the above, but these two courses required calculus)

PRE-PHYSICAL THERAPY REQUIREMENTS

The minimum requirements for application to most physical therapy programs include 90 prerequisite credits. Although there is no pre-physical therapy major (or physical therapy program) at Towson University, there is advising available through the Department of Biological Sciences.

PRE-VETERINARY REQUIREMENTS

Students planning a career in veterinary medicine should be aware of the following considerations as they prepare for admission to veterinary school:

- To be admitted to these very selective schools, students must have an outstanding record, usually with a minimum of 90 undergraduate credits.
- Most entering veterinary students have a B.S. or B.A. degree with a major in Biology or Chemistry, although other specific disciplines may be acceptable if basic courses in biology, chemistry, physics and mathematics are included.
- Although there are no specific tests required for admission to some veterinary schools, many request indications of aptitude as reflected in SAT, GRE or other standardized examinations.
- Veterinary schools expect the applicant to have experience in

aiding or assisting a veterinarian or working in adjunct fields as a volunteer or paid assistant. Varied experience, including research, is considered valuable.

- e) Advising for pre-veterinary students is available through the Department of Biological Sciences. It is strongly suggested that students seek these advisory services upon entering Towson University to maximize their career planning strategies.

Careful planning and early contact with veterinary schools is crucial.

SCIENCE AND TECHNOLOGY TODAY

Our technological society demands an ever increasing number of highly trained technical personnel in such diverse fields as government, business and industry, medicine and other health professions, education, and public services.

Towson University is responding to these new demands by making available to students a wide variety of programs, inter-disciplinary as well as traditional. For example, students interested in careers in environmental planning may wish to combine work in the physical sciences with courses in geography, mathematics, economics, political science, and psychology. Students whose primary interest is in ecology, air and water pollution control, or conservation of natural resources may wish to combine their work in geography and environmental planning with courses in biology and chemistry. Those with primary interest in materials transport or model systems design may emphasize work in mathematics and physics in addition to their courses in environmental planning. If one is planning to work in the area of genetic engineering, a strong foundation in biology, chemistry, mathematics and physics is essential. Students interested in careers in mathematics or statistics in government or business may major in mathematics and elect other courses from areas such as computer science, the social sciences, or the physical sciences according to their interests and plans. Students wishing to enter actuarial work would elect additional courses in economics, business administration, accounting and business law. Virtually every one will require some familiarity with the computer.

A program designed to meet the needs of the student is available. Advisors in each department can assist in designing a specific program.

Department of Biological Sciences

Professors: ANDERSON, DENNISTON, ERICKSON, FORESTER, HULL, ROBINSON, SCARBROUGH, SHOEMAKER, WINDLER

Associate Professor: HILTON (Chair), MANGURIAN, MASTERS, SCULLY, WUBAH

Assistant Professors: GASPARICH, GRESENS, JOHNSON, LAUTERBACH, MECHLING, NELSON, PHILIPPIDES, SCHUETZ, SMOES, WIMMERS

Lecturer: FELDMAN

Adjunct Faculty: BRUCE, GILL, HEALEY, SHOEMAKER, TRACEY

Assistant Instructors: BROWN, SKINNER

OFFICE

Smith Hall, Room 341, (410) 830-3042; Fax (410) 830-2405

PROGRAMS OF THE DEPARTMENT

The Department of Biological Sciences offers the following programs of study: the *major in Biology*; the *minor in Biology*; and the *Master of Science in Biology*. For more information about the master's program consult the *Graduate Catalog*.

A major in Biological Sciences is recommended for students interested in pursuing general careers in botany, zoology, ecology, microbiology or molecular biology. It is also recommended for individuals preparing for graduate studies in biology; medicine, dentistry or medically oriented fields including optometry, pharmacy, podiatry or veterinary science; teacher education in secondary schools, i.e., teaching of biological or natural sciences; basic or applied research in the biological sciences; or environmental studies including conservation, wildlife biology, forestry, fisheries, pollution control, marine biology, etc.

Students selecting this major should contact the Biology Department to be assigned an advisor to assist them in designing a program to meet their special needs. Students will meet with their advisor each semester to discuss their progress and to facilitate necessary changes in their programs of study.

MAJOR IN BIOLOGY

The Biology major requires a total of 39 biology credits with a grade of "C" or higher: 20 credits in core courses and 19 credits in electives. Additionally, 21-30 credits with a grade of "C" or higher are required in ancillary courses.

Selection of appropriate electives allows the student to fulfill the requirements for a concentration in any of nine areas of specialty: Animal Anatomy and Physiology, Botany, Ecology, Marine Biology, Microbiology, Pre-medicine/Pre-dentistry, Secondary School Biology and General Science Teaching, and Zoology. Completion of a concentration is not required to graduate with a Biology major.

Requirements for the Major

Core Courses (20 credits)

BIOL 201	Biology I: Cellular Biology and Genetics* (4)
BIOL 202	Biology II: Organismic and Population Biology (4)
BIOL 205	General Botany (4)
BIOL 207	General Zoology (4)
BIOL 309	Principles of Genetics (3)
BIOL 486	Biology Majors Seminar (1)

*BIOL 110 or 112 with a "B" or better fulfills this requirement.

Electives (19 credits)

Biology majors are required to complete a minimum of 19 credit hours of elective courses in Biology. This requirement may be fulfilled by following one of two Options.

Option I students may select their own electives from offerings within the department (see exceptions noted below). Option II students may select a series of courses recommended within concentrations developed by the department, and at the request of the student.

completion of a concentration will be noted on his or her transcript. Regardless of the Option chosen, students must work closely with a faculty advisor in the development of a program of study.

No more than three credits combined from BIOL 491, Independent Research in Biology; BIOL 494, Travel Study; BIOL 498, Honors Research; and BIOL 499, Senior Thesis in Biology, may count toward the Biology major.

The following courses MAY NOT be used to fulfill Biology elective requirements for the major in either Option I or Option II: BIOL 100, Humanistic Botany; BIOL 103, Human Biology; BIOL 105, Environmental Biology; BIOL 115, Biological Science I; BIOL 215, Foundations of Microbiology; BIOL 295, Course Research; BIOL 301, Field Natural Science; BIOL 303, Life Science for the Elementary Teacher; BIOL 381, Biological Literature; BIOL 481, Directed Readings in Biology; BIOL 493, Internship in Biology; BIOL 495, Course Research.

The Biology department makes every effort to offer elective courses in a systematic fashion. However, the department assumes no responsibility for cases in which unforeseen scheduling conflicts, course cancellations, or staffing changes prevent a student from taking a particular elective course during his or her residence at Towson University.

Ancillary Courses (21-30 credits)

Option I students must select from the following courses in chemistry, physics and mathematics.

Chemistry (13-18 credits)

- CHEM 101-102 General Chemistry I, II (4, 4)
 CHEM 330 Essentials of Organic Chemistry* (5)
 or
 CHEM 331-332 Organic Chemistry I, II (5, 5)

Physics (5-8 credits)

- PHYS 203 Topics in Physics for Biology Majors* (5)
 or
 PHYS 211-212 General Physics I, II (4, 4)**

Mathematics (3-4 credits)***

One of the following

- MATH 211 Calculus for Applications (3)
 MATH 237 Elementary Biostatistics (4)
 MATH 273 Calculus (4)
 PSYC 212 Behavioral Statistics (4)

In addition, computer science course is strongly recommended.

*Graduate schools often require two semester courses in these subjects.

**In all subsequent concentrations and course prerequisites PHYS 241-242 may be substituted for PHYS 211-212.

***Since material covered in the Basic Mathematics for the Sciences (MATH 115) is prerequisite for Chemistry and Physics, students who have not completed high school trigonometry and two years of high school algebra in good standing should take this course in addition to one of the options listed above.

Option II students must complete a specified group of ancillary courses within a concentration.

In both options, General Chemistry should be taken during the freshman year, Organic Chemistry during the sophomore year, and Physics as soon as possible.

ANIMAL ANATOMY AND PHYSIOLOGY CONCENTRATION

Students completing this concentration will be prepared for advanced study in anatomy and physiology or vocations requiring proficiency in these areas.

Biology Core (20 credits)

Electives (19 credits)

- BIOL 213-214 Human Anatomy and Physiology I, II (4, 4)
 or
 BIOL 311 Functional Anatomy of Humans (4)

Select three from the following, at least one of which must be BIOL 465 or BIOL 469

- BIOL 360 Histology (4)
 BIOL 367 Endocrinology (3)
 BIOL 408 Cell Biology (4)
 BIOL 463 Animal Embryology (4)
 BIOL 465 Mammalian Physiology (4)
 BIOL 469 Comparative Animal Physiology (4)

Biology electives, if needed to complete the required 19 credits (see recommendations)

Ancillary Courses (21-30 credits)

As in Biology Major Option I

Recommended Courses

- BIOL 318 Microbiology (4)
 BIOL 355 Animal Parasitology (4)
 BIOL 401 Genetics (4)
 BIOL 427 Neuromuscular Mechanisms of the Upper Body (2)
 CHEM 351 Introductory Biochemistry (3)
 CHEM 356 Biochemistry Laboratory (2)

BOTANY CONCENTRATION

Background acquired in this concentration will train graduates for positions in botanically-related industry or advanced study in botany, horticulture, or forestry.

Biology Core (20 credits)

Electives (20 credits)

A minimum of 20 credits from the following courses, of which one must be from Group A, two from Group B and the remainder from Groups A, B, and C.

Group A

- BIOL 436 Plant Physiology (4)
 BIOL 439 Plant Anatomy (4)

Group B

- BIOL 331 Plant Morphology (4)
 BIOL 341 Fresh Water Algae (4)
 BIOL 345 Mycology (4)
 BIOL 349 Marine Botany (4)
 BIOL 432 Vascular Plant Taxonomy (4)

Group C

- BIOL 305 Electron Microscopy (4)
 BIOL 335 Economic Botany (3)
 BIOL 431 Horticulture (4)
 BIOL 435 Plant Ecology (4)

Ancillary Courses (21-30 credits)

As in Biology Major Option I

Recommended Courses

- CHEM 351 Introductory Biochemistry (3)
 CHEM 356 Biochemistry Laboratory (2)

ECOLOGY CONCENTRATION

Completion of this concentration provides background for advanced study and career opportunities in environmental education, government environmental regulatory agencies, and the private sector.

Biology Core (20 credits)

Electives (19-20 credits)

A minimum of 19 credits from the following courses with at least one course selected from each of Group A, Group B, Group C and Group D.

Group A

- BIOL 402 General Ecology (4)
 BIOL 435 Plant Ecology (4)

Group B

- BIOL 436 Plant Physiology (4)
 BIOL 469 Comparative Animal Physiology (4)

Group C

BIOL 331	Plant Morphology (4)
BIOL 341	Fresh Water Algae (4)
BIOL 345	Mycology (4)
BIOL 349	Marine Botany (4)
BIOL 432	Vascular Plant Taxonomy (4)

Group D

BIOL 310	Environmental Conservation (4)
BIOL 347	Marine Biology (4)
BIOL 351	Field and Systematic Vertebrate Zoology (4)
BIOL 353	Invertebrate Zoology (4)
BIOL 371	Animal Behavior (4)
BIOL 404	Ecological Techniques (3)
BIOL 406	Limnology (4)
BIOL 411	Wildlife Biology (3)
BIOL 413	Evolution (3)
BIOL 456	Ornithology (4)
BIOL 458	Mammalogy (4)
BIOL 461	Entomology (4)
BIOL 467	Herpetology (4)

Ancillary Courses (22-30 credits)

Chemistry and Physics requirements as in the Biology Major Option 1, and either

MATH 237	Elementary Biostatistics (4)
or	
PSYC 212	Behavioral Statistics (4)

Recommended Courses

MATH 273	Calculus I (4)
or	
MATH 211	Calculus for Applications (3)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
BIOL 401	Genetics (4)

MARINE BIOLOGY TRACK

This track provides background for advanced study in the marine sciences. It also offers training appropriate for a career in private or public agencies which are concerned with aquatic environments.

Biology Core (20 credits)**Electives (19-22 credits)****Required Biology Elective**

BIOL 347	Marine Biology (3)
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A minimum of four courses selected from the following

BIOL 349	Marine Botany (4)
BIOL 351	Field and Systematic Vertebrate Zoology (4)
BIOL 353	Invertebrate Zoology (4)
BIOL 389	Current Developments in Biology (3)*
BIOL 406	Limnology (4)
xxxx xxx	Recommended Marine Experience (3-4)**

*When focusing on a marine related topic.

**An intensive field and/or laboratory experience in the area of Marine Biology. Credit will be granted via BIOL 491, or BIOL 494, or transfer credit from the sponsoring institution. The Biology Department has a current list of approved courses and programs. All experiences must be approved in advance.

Ancillary Courses (21-30 credits)

As in Biology Major Option 1

Recommended Courses

BIOL 401	Genetics (4)
BIOL 402	General Ecology (4)
BIOL 436	Plant Physiology (4)
BIOL 469	Comparative Animal Physiology (4)
BIOL 351	Introductory Biochemistry (3)
BIOL 356	Biochemistry Laboratory (2)
PHSC 121	Physical Geology (4)
PHSC 123	Historical Geology (3)
PHSC 357	Physical Oceanography (4)
PHSC 443	Sedimentology and Sedimentary Petrology (3)

MICROBIOLOGY CONCENTRATION

This concentration will provide knowledge of the characteristics of microorganisms and the laboratory skills necessary for isolation, cultivation, and identification of microorganisms and the evaluation of microbiological data. Careers in microbiology are available in food technology, pharmaceutical production, fermentation industries, agriculture, medical laboratories, water quality control, and basic research. Completion of this concentration will qualify students for registry as microbiologists with the Federal Civil Service and the American Academy of Microbiology.

Biology Core (20 credits)**Electives (20 credits)**

BIOL 315	Medical Microbiology (4)
or	
BIOL 318	Microbiology (4)
BIOL 401	Genetics (4)

A minimum of 12 credits selected from the following

BIOL 305	Electron Microscopy (4)
BIOL 341	Freshwater Algae (4)
BIOL 345	Mycology (4)
BIOL 355	Animal Parasitology (4)
BIOL 403	Advanced Genetics (3)
BIOL 408	Cell Biology (4)
BIOL 421	Immunology (3)
BIOL 428	Virology (3)
BIOL 485	Seminar in Microbiology and Cell Biology (1)

Ancillary Courses (27-35 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
CHEM 330	Essentials of Organic Chemistry (5)
or	
CHEM 331-332	Organic Chemistry I, II (5, 5)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
PHYS 203	Topics in Physics for Biology Majors (5)
or	
PHYS 211-212	General Physics I, II (4, 4)
MATH 211	Calculus for Applications (3)
or	
MATH 273	Calculus I (4)

Recommended Courses

BIOL 213-214	Human Anatomy and Physiology I, II (8)
BIOL 311	Functional Anatomy of Humans (4)
HLTH 311	Chronic and Communicable Disease (3)
MATH 237	Elementary Biostatistics (4)
CHEM 210	Principles and Methods of Chemical Analysis (4)
CHEM 341	Physical Chemistry—Thermodynamics (3)
CHEM 342	Physical Chemistry—Structure & Kinetics (3)

PRE-MEDICINE/PRE-DENTISTRY CONCENTRATION

Students planning to enter medical or dental school should select this concentration. It is also recommended for those interested in medically related fields such as osteopathy, podiatry and optometry.

Biology Core (20 credits)**Electives (19-20 credits)**

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
BIOL 401	Genetics (4)
BIOL 408	Cell Biology (4)

A minimum of one of the following

BIOL 360	Histology (4)
BIOL 463	Animal Embryology (4)
BIOL 465	Mammalian Physiology (4)

Ancillary Courses (29-30 credits)

CHEM 101-102	General Chemistry (4, 4)
CHEM 331-332	Organic Chemistry I, II (5, 5)
PHYS 211-212	General Physics I, II (4, 4)

Math requirement as in Biology Major Option 1

Recommended Courses

BIOL 315	Medical Microbiology (4)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)

SECONDARY SCHOOL BIOLOGY AND GENERAL SCIENCE TEACHING CONCENTRATION

Students who complete this concentration and the required courses in the Secondary Education Department will meet certification requirements to teach secondary school biology and general science in at least 33 states including Maryland. Students must register with the Department of Secondary Education and should have an advisor in that department in addition to their Biology advisor. Students should consult the Department of Secondary Education regarding any recent changes in certification requirements.

Students with Bachelor's degrees who desire to become certified to teach either Biology or General Science in Maryland or other states should first contact the Department of Secondary Education for advising in a Professional Education Program and then contact the Biology Department for an advisor.

Biology Core (20 credits)**Electives (19-20 credits)**

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
or	
BIOL 311	Functional Anatomy of Humans (4)
Biology electives to complete 19 credits as approved by advisor	

Ancillary Courses (28-29 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
CHEM 330	Essentials of Organic Chemistry (5)
PHYS 211-212	General Physics I, II (4, 4)

One of the following

MATH 211	Calculus for Applications (3)
MATH 273	Calculus I (4)

One of the following

PHSC 121	Physical Geology (4)
PHSC 123	Historical Geology (3)
PHSC 161	General Astronomy I (3)
PHSC 357	Physical Oceanography (4)
GEOG 373	Climatology (4)
GEOG 377	Descriptive Meteorology (4)

Recommended Courses

BIOL 315	Medical Microbiology (4)
BIOL 318	Microbiology (4)
BIOL 461	Entomology (4)

ZOOLOGY CONCENTRATION

This concentration is recommended for individuals preparing for careers and/or advanced study in vertebrate zoology, invertebrate zoology, entomology, wildlife biology or fisheries biology.

Biology Core (20 credits)**Electives (19-20 credits)**

BIOL 469	Comparative Animal Physiology (4)
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A minimum of four courses from the following, at least one of which must be selected from Group A and one from Group B

Group A

BIOL 371	Animal Behavior (4)
BIOL 402	General Ecology (4)
BIOL 411	Wildlife Biology (4)
BIOL 413	Evolution (3)

Group B

BIOL 351	Field and Systematic Vertebrate Zoology (4)
BIOL 353	Invertebrate Zoology (4)
BIOL 355	Animal Parasitology (4)
BIOL 456	Ornithology (4)
BIOL 458	Mammalogy (4)
BIOL 461	Entomology (4)
BIOL 467	Herpetology (4)

Ancillary Courses (22-30 credits)

Chemistry and Physics requirements as in Biology Major Option I

One of the following

MATH 237	Elementary Biostatistics (4)
or	
PSYC 212	Behavioral Statistics (4)

Recommended Courses

MATH 211	Calculus for Applications (3)
or	
MATH 273	Calculus I (4)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)

MINOR IN BIOLOGY

To fulfill the requirements of a Biology minor, students must complete the following courses. A minimum of 12 hours of the biology credits applied toward the minor must be earned at Towson University.

Biology Requirements (24 credits)

BIOL 110	Contemporary General Biology (4)
BIOL 205	General Botany (4)
BIOL 207	General Zoology (4)
BIOL xxx	Upper Division Biology courses (12)

The following courses MAY NOT be used to fulfill this requirement: BIOL 301, Field Natural Science; BIOL 303, Life Science for the Elementary Teacher; BIOL 381, Biological Literature; BIOL 481, Directed Readings in Biology; BIOL 491, Independent Research; BIOL 493, Internship in Biology; BIOL 494, Travel Study; BIOL 495, Course Research.

Ancillary Courses (8 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
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TRANSFER CREDIT POLICY

The Biology Department accepts credit toward the Biology major from other accredited colleges and universities. However, a minimum of 19 hours of biology credits applied toward the major must be earned at Towson University. Additionally, there are equivalency exams available for all the major biology core courses, as well as several others. The Biology Department should be contacted to determine equivalency of specific transfer credits.

HONORS PROGRAM

To graduate with honors in biology, a student must complete BIOL 498 and BIOL 499 to be taken in consecutive semesters of the senior year. The research thesis must be presented in an oral defense before the honors research committee. An oral presentation open to the public is also required. In addition, a minimum of three credit hours must be selected from BIOL 491 and/or BIOL 481 in the junior year. For eligibility and general information consult the College Honors Program description.

INTERNSHIP/COOPERATIVE EDUCATION

The Biology Department participates in the University's cooperative education program which provides junior- and senior-level students of high academic standing practical work experience while earning college credit. Students have served as interns at such facilities as the National Aquarium and the Smithsonian Institution. For further information contact the Internship/Cooperative Education Office.

STUDENT ORGANIZATIONS

The Biology Club and the local chapter of Beta Beta Beta, the national honor society in biology, are active organizations composed of and led by students. Among the events organized by members of the Biology Club are field trips, which are designed to enhance the participant's knowledge of the biological sciences, and athletic and social events, which provide opportunities for student and faculty interaction in an informal atmosphere. Tri Beta, whose members have achieved high scholarship, functions primarily to encourage and provide for the academic growth of its members.

GRADUATE PROGRAM

The course of study leading to the Master of Science in Biology is designed to provide greater knowledge and understanding of biology and to help the student develop a proficiency in independent thought, inquiry and research. The student may pursue either the Thesis Program (30 credits and a thesis) or the Non-Thesis Program (36 credits). Detailed information regarding both programs is given in the *Graduate Catalog*.

DEPARTMENT ANIMAL POLICY

In accordance with Federal laws and regulations, Towson University, through its Institutional Animal Care and Use Committee, reviews the use of animals in teaching to assure compliance with the standards established by the USDA and NIH for the humane treatment of animals. The University makes every effort to minimize the use of animals and seeks alternatives wherever possible. While Towson University recognizes that some students may believe that use of animals as teaching tools is inhumane, certain curricula require the use of animals as a necessary part of instruction. Accordingly, where the use of animals in class demonstrations or experiments is a requirement for successful completion of any course, as determined by the department, the student will be obliged to comply with those requirements as set forth by the instructor in the course syllabus. The University shall not provide optional procedures for students who do not comply with course requirements.

If a course requires the use of animals in class demonstrations or experiments, however, the syllabus shall specifically state that animals will be used in class demonstration or experiments and that such use is a requirement for successful completion of the course. Notice of this requirement shall be made a part of the course description and shall be placed in the University catalog.



Department of Chemistry

Professors: BOUCHER, DEBYE, GREENBERG, (*Chair*); LARKIN, RAWN, SWEETING, TOPPING, WINGROVE

Associate Professors: MILIO, PREISLER, PRIBULA

Assistant Professor: RYZHKOV

Adjunct Faculty: AMAH, BINKLEY, BOBER, DIXON, ECK, EISENBERG, KASK, LADON, LAUTERBACH, ROSKES, SHEPARD, THORPE, TOBIN, WALDMAN, WARNER, YAU

OFFICE

Smith Hall, Room 547, (410) 830-3058

PROGRAMS OF THE DEPARTMENT

The Department of Chemistry offers the following curricular options: the *Major in Chemistry*; the *American Chemical Society Accredited Major in Chemistry/Biochemistry Track*; the *American Chemical Society Accredited Major in Chemistry*; the *Chemistry Secondary Education program*, for students planning to teach chemistry at the secondary level; and the *Minor in Chemistry*.

To offer the broadest possible service and to meet the needs of a full range of students at the university, the Chemistry major provides a strong background in all major areas of chemistry: physical chemistry, inorganic chemistry, organic chemistry, biochemistry, analytical chemistry, and instrumental analysis. Students are given the opportunity to concentrate in one or more of these areas by taking advanced courses in areas of specific interest. Students are required to learn to use instruments commonly encountered in chemistry. Small-sized classes are prevalent in all Chemistry courses, and students are taught by faculty in both lecture and laboratory. Special topics courses are offered periodically to provide students the opportunity to broaden their background in chemistry.

Chemistry majors are able to pursue many different avenues after graduation, including graduate school in chemistry and related areas, employment in government or industry, professional school (e.g., medicine, dentistry, pharmacy, law, library science), or secondary school teaching. There are many employment opportunities available to Chemistry majors, including those in water pollution, forensic chemistry, environmental chemistry, molecular biology, research and development, quality assurance, and genetic engineering. Students planning careers in industry are encouraged to take courses in business and finance as part of their undergraduate program.

EVENING CHEMISTRY MAJOR PROGRAM

The Chemistry Department offers a major program that permits students to pursue the Chemistry major at night. Contact the Department of Chemistry for further information and a long range schedule of course offerings.

MAJOR IN CHEMISTRY

This major is recommended for students who intend to do graduate work in chemistry, to teach in secondary schools, to work in industrial, government and hospital laboratories, technical libraries, and related professions. Students who plan to pursue chemically-oriented careers such as fundamental and industrial research, medicine, dentistry, pharmacy, veterinary medicine, agriculture, and other allied fields, may also elect this major. Students electing the major should contact the Chemistry Department and be assigned an advisor to assist them in designing programs to meet their career needs.

Required Courses (64 credits)

MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
PHYS 241	General Physics I (4) (or PHYS 211 but this is not recommended)
PHYS 242	General Physics II (4) (or PHYS 212 but this is not recommended)
CHEM 101	General Chemistry I (4)
CHEM 102	General Chemistry II (4)

CHEM 213	Quantitative Analytical Chemistry - Lecture (3)
CHEM 215	Quantitative Analytical Chemistry - Laboratory (2)
CHEM 321	Descriptive Inorganic Chemistry (3)
CHEM 331	Organic Chemistry I (5)
CHEM 332	Organic Chemistry II (5)
CHEM 341	Physical Chemistry I - Thermodynamics (3)
CHEM 342	Physical Chemistry II - Structure & Kinetics (3)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
<i>or</i>	
CHEM 424	Inorganic Chemistry Laboratory (2)
CHEM 372	Intermediate Laboratory I (1)
CHEM 373	Intermediate Laboratory II (1)
CHEM 374	Intermediate Laboratory III (1)
CHEM 401	Seminar in Chemistry (1)
CHEM 413	Theory of Instrumental Analysis (3)
CHEM 425	Advanced Inorganic Chemistry (2)
CHEM 475	Intermediate Laboratory IV (1)
CHEM 391	Special Problems in Chemistry (1)
<i>or</i>	
CHEM 395	Internship in Chemistry (1-3)
CHEM 491	Introduction to Research in Chemistry (1)

For those who intend to go to graduate school in chemistry, two semesters of foreign language are strongly recommended. Additional physics and mathematics courses are also suggested, especially COSC 165 and/or MATH 275 and/or MATH 374 and/or PHYS 307. (See ACS Certification.) Majors must also complete the General Education requirements.

AMERICAN CHEMICAL SOCIETY ACCREDITED MAJOR IN CHEMISTRY/BIOCHEMISTRY TRACK

Chemistry majors seeking a curriculum emphasizing biochemistry are encouraged to choose the Biochemistry Track. This option is particularly well-suited for students majoring in both Chemistry and Biology.

Required Courses (73 credits)

BIOL 201	Biology I: Cellular Biology and Genetics (4) (or grade "B" or better in BIOL 110 or in BIOL 112)
BIOL 318	Microbiology (4)
<i>or</i>	
BIOL 401	Genetics (4)
<i>or</i>	
BIOL 408	Cell Biology (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
PHYS 241	General Physics I (4)
PHYS 242	General Physics II (4)
CHEM 101	General Chemistry I (4)
CHEM 102	General Chemistry II (4)
CHEM 213	Quantitative Analytical Chemistry - Lecture (3)
CHEM 215	Quantitative Analytical Chemistry - Laboratory (2)
CHEM 321	Descriptive Inorganic Chemistry (3)
CHEM 331	Organic Chemistry I (5)
CHEM 332	Organic Chemistry II (5)
CHEM 341	Physical Chemistry I - Thermodynamics (3)
CHEM 342	Physical Chemistry II - Structure & Kinetics (3)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
CHEM 372	Intermediate Laboratory I (1)
CHEM 373	Intermediate Laboratory II (1)
CHEM 401	Seminar in Chemistry (1)
CHEM 413	Theory of Instrumental Analysis (3)
CHEM 452	Advanced Biochemistry (3)
CHEM 454	Instrumental Methods in Biochemistry (2)
CHEM 491	Introduction to Research in Chemistry (1)

AMERICAN CHEMICAL SOCIETY ACCREDITED MAJOR IN CHEMISTRY

The ACS degree is widely recognized throughout industry, government and education as a standard of excellence. Students with a good scholastic record and a general interest in chemistry are therefore encouraged to pursue this degree program.

Required Courses (69-70 credits)

MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
PHYS 241	General Physics I (4)
PHYS 242	General Physics II (4)
CHEM 101	General Chemistry I (4)
CHEM 102	General Chemistry II (4)
CHEM 213	Quantitative Analytical Chemistry - Lecture (3)
CHEM 215	Quantitative Analytical Chemistry - Laboratory (2)
CHEM 321	Descriptive Inorganic Chemistry (3)
CHEM 331	Organic Chemistry I (5)
CHEM 332	Organic Chemistry II (5)
CHEM 341	Physical Chemistry I - Thermodynamics (3)
CHEM 342	Physical Chemistry II - Structure & Kinetics (3)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
<i>or</i>	
CHEM 424	Inorganic Chemistry Laboratory (2)
CHEM 372	Intermediate Laboratory I (1)
CHEM 373	Intermediate Laboratory II (1)
CHEM 374	Intermediate Laboratory III (1)
CHEM 401	Seminar in Chemistry (1)
CHEM 413	Theory of Instrumental Analysis (3)
CHEM 425	Advanced Inorganic Chemistry (2)
CHEM 475	Intermediate Laboratory IV (1)
CHEM 491	Introduction to Research in Chemistry (1)

In addition, students must complete *two* advanced courses from the following: CHEM 356 (2), CHEM 417 (3), CHEM 424 (2), CHEM 431 (3), CHEM 432 (3), CHEM 441 (3), CHEM 452 (3), CHEM 454 (3). Students who have taken General Physics without calculus (PHYS 211 and PHYS 212) may count these courses for ACS certification *provided* an additional advanced physics lecture course is taken; consult the Chemistry Department for information about acceptable physics courses. An advanced course in either physics or mathematics may be substituted for one advanced course in chemistry (excluding CHEM 424 and CHEM 491). A student selecting this substitution must obtain *prior* departmental approval.

In selecting this program, students should plan their college careers carefully as not all the advanced chemistry courses are offered every semester. A tentative schedule of when these courses will be offered may be obtained from the Chemistry Department. Advanced chemistry electives are offered periodically, subject to adequate enrollment.

RESEARCH IN CHEMISTRY

Students must complete CHEM 491 *before* their final semester at Towson University. Students interested in taking this course must first see the Coordinator of Undergraduate Research who will assist the student in finding a research project of interest. The student's performance will be evaluated by the research director and two other faculty members.

CHEMISTRY SECONDARY EDUCATION PROGRAM

Chemistry majors may obtain certification to teach chemistry at the secondary level. Students in the Secondary Education program receive certification to teach in Maryland upon graduation. Chemistry majors seeking certification must complete BIOL 110 or BIOL 201, and one earth science course selected from the following: GEOG 373, GEOG 377, PHSC 121, PHSC 123, PHSC 161, PHSC 357. These students must complete 16 credits total of courses in biology, physics, and earth science. Additionally, students must meet the requirements specified by the Department of Secondary Education as listed in the catalog section describing the Physics Secondary Education Program.

Students must register with the Department of Secondary Education, and should have an advisor in that department in addition to their chemistry faculty advisor.

MINOR IN CHEMISTRY

Students whose major interest is in cell or molecular biology, physiology, physiological psychology, environmental studies, natural science, molecular physics or medical technology will find a good

chemistry background to be a useful adjunct to their major. The Chemistry minor can provide this background and offers some flexibility in catering to the specific interest of the student. Students should consult the Chemistry minor advisor as soon as possible after entering Towson in order to design programs to meet their special needs.

Requirements for the Minor

The minor in Chemistry requires a minimum of 24 credits in chemistry, 12 of which must be upper-division. At least eight upper-division credits must be taken at Towson. A grade of "C" or better must be earned in each course. Courses taken elsewhere and accepted for transfer to Towson University may be used for the Chemistry minor.

Required Courses (24 credits)

CHEM 101	General Chemistry I (4)
CHEM 102	General Chemistry II (4)
CHEM 210	Principles and Methods of Chemical Analysis (4)
	or
CHEM 213	Quantitative Analytical Chemistry - Lecture (3)
	and
CHEM 215	Quantitative Analytical Chemistry - Laboratory (2)
CHEM 330	Essentials of Organic Chemistry (5)
	or
CHEM 331	Organic Chemistry I (5)
	and
CHEM 332	Organic Chemistry II (5)

Upper-Division Chemistry Electives

In addition to the above required courses, one or more upper-division Chemistry courses may have to be taken to make a *total* of 12 upper-division credits. The following courses are recommended as being of potential interest to Chemistry minors, but other upper-division chemistry courses may be counted *if* they are approved in advance by the Chemistry Minor advisor.

CHEM 321	Descriptive Inorganic Chemistry (3)
CHEM 340	Physical Chemistry: Principles and Applications (3)
CHEM 341	Physical Chemistry—Thermodynamics (3)
CHEM 342	Physical Chemistry—Structure and Kinetics (3)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
CHEM 361	Chemical and Bacteriological Studies of Water Pollution (3)
CHEM 363	Chemistry of Dangerous Drugs (3)
CHEM 367	Forensic Chemistry (3)
CHEM 372	Intermediate Laboratory I (1)
CHEM 373	Intermediate Laboratory II (1)

Clinical Chemistry taken in the Medical Technology program may count as two upper-division credits.

INTERDISCIPLINARY PROGRAMS

Molecular Biology Track

The rapidly expanding field of molecular biology offers many opportunities in industry and research. Students may obtain excellent preparation in molecular biology by following the track in Molecular Biology described in this *Catalog* under Interdisciplinary Studies. Faculty in the Biology and Chemistry Departments are available to advise students interested in this program.

Natural Science Major

The Natural Science major provides several interdisciplinary concentrations designed either to give a broad view of the sciences, or to provide for specialization in the earth sciences. The concentrations are general science, environmental science, earth science, and geology. For detailed information about this major, see description under the Department of Physics.

Dual-Degree Program in Engineering

A Student may obtain a bachelor's degree with a major in Chemistry from Towson University and a degree in Engineering from the University of Maryland at College Park as part of a joint program. This

program is described in the College of Natural and Mathematical Sciences' Pre-Professional Preparation area of this *Catalog*. Further information may be obtained from the Physics Department.

Pre-Medical, Pre-Dental, and Pre-Pharmacy Requirements

Students majoring in Chemistry must also complete certain pre-professional requirements for admission to Medical, Dental or Pharmacy school; see the College of Natural and Mathematical Sciences' Pre-Professional Preparation area of this *Catalog* for further information about admission requirements for Medical, Dental, or Pharmacy school. Pre-Medical and Pre-Dental students should contact the Pre-Medical/Pre-Dental Committee for assistance with their applications, advice about pre-professional courses, and letters of recommendation. For admission requirements and advice about pre-professional courses for Pharmacy school, contact the Pre-Pharmacy advisor in the Chemistry Department.

TRANSFER CREDIT POLICY

Students who transfer to Towson University from a regionally accredited two-year or four-year college should have completed two semesters of General Chemistry, two semesters of Organic Chemistry, two semesters of Calculus, and two semesters of calculus-based Physics to ensure completion of the Chemistry major in a total of four years of college. Transfer students should consult the Chemistry Department concerning the transferability of chemistry courses other than the ones mentioned above.

Students must complete at least 12 upper-division credits in chemistry at Towson to graduate with a degree in Chemistry. CHEM 331 and CHEM 332, Organic Chemistry I and II, *MAY NOT* be counted as part of these upper-division credits.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The Department of Chemistry awards credit for General Chemistry through the Advanced Placement Examinations given by the Educational Testing Service.

Students may also receive credit for General Chemistry by taking the Credit for Prior Learning examination which is administered through the Office for Non-Traditional Undergraduate Programs. Students may also receive credit for other chemistry courses by passing the appropriate examinations. Further information may be obtained from the Department.

ADVANCED COMPOSITION COURSE

The Department of Chemistry offers WRIT 335, a course that deals with ethics in the physical sciences and which fulfills the General Education requirements for an advanced writing course.

DEPARTMENT AND COLLEGE MERIT SCHOLARSHIP

Department and College Merit Scholarships are awarded on an annual basis. Further information regarding these opportunities may be obtained from the Chemistry Department.

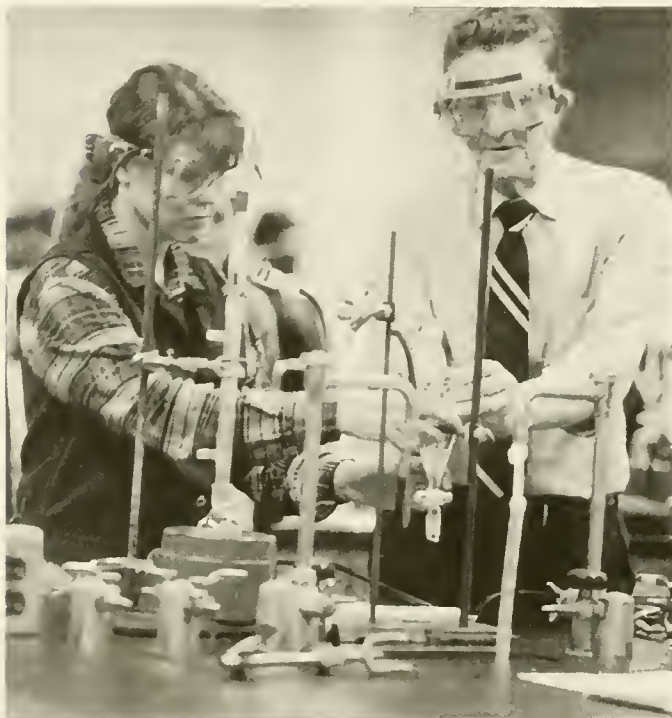
INTERNSHIP/COOPERATIVE EDUCATION

Chemistry majors are encouraged to participate in the Cooperative Education Program and receive academic credit for practical work experience in areas of special student interest. Academic credit can be acquired by taking CHEM 395, Internship in Chemistry. For further information, contact the Internship/Cooperative Education Office.

DEPARTMENTAL ACTIVITIES AND AWARDS

Many Chemistry majors actively participate in the Student Affiliates of the American Chemical Society, a student group supported by the department under the auspices of the American Chemical Society. This organization permits students to join the national organization and to procure certain chemistry publications and services at reduced rates.

Numerous student awards are given annually for outstanding work in chemistry courses: CRC Press Freshman Chemistry Achievement Award, Merck Index Achievement Award in Organic Chemistry, ACS Achievement in Organic Chemistry Award (joint Polymer-Education Committee), Analytical Division (ACS) Award in Analytical Chemistry, Coblenz Society Award in Spectroscopy, Floyd A. Blankenship Award in Physical Chemistry, American Institute of Chemists Outstanding Senior Award, American Chemical Society Outstanding Student Award. In addition, undergraduate research participation grants are awarded by the university on a competitive basis to provide support for student research.



Department of Computer and Information Sciences

Professors: AKINGBEHIN, (Chair); BEHFOROOZ, GRANT, LIDTKE, LITTLE, SRIVASTAVA

Associate Professors: ALEXANDER, CLEMENTS, DAVANI, LU, MORRISON, ZHOU

Assistant Professors: AZADEGAN, DIERBACH, HAMILTON, KARNE, RIGGLEMAN, SCHMITT, SMITH, TAYLOR, WIJESINHA

OFFICE

Stephens Hall, Room 314, (410) 830-2633

PROGRAMS OF THE DEPARTMENT

The Department of Computer and Information Sciences (COSC) offers the following programs of study: the *major in Computer Science*; the *major in Computer Science with a second major in Mathematics*; the *major in Computer Science with a track in Information Systems*; the *minor in Computer Science* and the *major in Computer and Information Systems*. The major in Computer Science and the major in Computer Science with a second major in Mathematics are both accredited by the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body.

The Computer Science major offers students an opportunity to study for both a theoretical and practical background, which can lead to computer-oriented careers in a variety of settings. Graduates are sought by scientific research organizations, software development companies, business and banking operations, government agencies, educational institutions, and computer manufacturers. Jobs held by recent graduates include systems programmer, computer programmer/analyst, computer specialist, systems analyst/designer, software engineer, and management information systems specialist. Students are encouraged to expand their studies by taking courses in areas such as business, education, or any of the sciences. Computer expertise combined with knowledge in an application area often is attractive to specific employers. The programs also prepare students for graduate work in computer sciences, mathematics, or management information systems.

The curriculum seeks to provide factual knowledge as well as a mode of thinking which permits continued growth on the part of graduates. In addition to exposing students to a depth of knowledge in computer science sufficient to lay the basis for professional competence, the curriculum also provides students with the intellectual maturity to stay abreast of their own discipline and to interact with other disciplines.

Degree requirements may be fulfilled by matriculated students attending classes either full-time or part-time. Students attending part-time in the evening are advised that not all required courses are available in the evening every semester. COSC course cycle information is available in the Department.

The Department has 20 full-time faculty members and a number of part-time faculty. Research specialties include artificial intelligence, database languages, decision support systems, networks, numerical and linear analysis, operating systems, robotics, simulation, software engineering, and systems analysis and design.

Students enrolled in computer science courses work with an assortment of computing machinery in a variety of computing laboratories to achieve their educational goals. Instructional facilities provided by the department include two Pentium Teaching Labs, a Terminals Laboratory connected to the University's academic minicomputer, a Major's Computing Laboratory, a Silicon Graphics/SUN Workstations laboratory, and the COSC Open Laboratory. The department also employs facilities at our off-campus Harford County H.E.A.T. Center location and is planning construction of three new NSF-funded laboratories for 7800 York Road: a Collaborative Learning Laboratory, a Parallel and Distributed Processing laboratory, and a Real-Time Laboratory.

The computing needs of computer science majors are also met by the

vast array of facilities and services provided by the University's Computing and Network Services department.

Students electing the major should contact the Department of Computer and Information Sciences and be assigned a faculty advisor to assist them in planning their academic schedules, identifying educational goals and maintaining good academic progress.

MAJOR IN COMPUTER SCIENCE

The computer science major requires 74-78 credits to be earned with a grade of "C" or higher.

Required COSC Courses (29 credits)

COSC 236	Intro to Computer Science I (4)
COSC 237	Intro to Computer Science II (4)
COSC 280	Assembly Lang. & Computer Architecture (3)
COSC 336	Data & File Structures (4)
COSC 338	Computer Organization & Architecture (4)
COSC 439	Operating Systems (3)
COSC 455	Prog. Languages: Design & Implementation (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1)
(COSC 418 may be selected as a substitute for COSC 480)	

Required MATH Courses (18-19 credits)

MATH 263	Discrete Mathematics (3)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 330	Introduction to Statistical Methods (4)

And at least one of the following

MATH 265	Elementary Linear Algebra(4)
MATH 275	Calculus III (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 435	Numerical Analysis I (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (3)
MATH 451	Graph Theory (3)
MATH 467	Algebraic Structures (4)

Electives COSC Courses (12-14 credits)

A. At least 2 courses from the following list:

COSC 367	Discrete Structures (3)
COSC 415	Compiler Design (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)
COSC 461	Artificial Intelligence (3)
COSC 483	Design & Analysis of Algorithms (3)

B. At least 2 courses from the following

COSC 350	Data Communications and Teleprocessing (3)
COSC 412	Software Engineering (3)
COSC 431	Selected Topics in Computer Science (3)
COSC 438	Parallel/Vector Computer Architectures (3)
COSC 471	Computer Graphics (3)

Science Requirement (15-16 credits)

A sequence of two courses taken from Physics, Biology, or Chemistry. These must be courses accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from Physics, Biology or Chemistry. These must be from courses accepted for the major in that discipline, except PHYS 244, 303 and 337 are not counted.

GenEd requirement: COMM 131 (completed with a grade of "C" or better). This course can count for GenEd II.B.3.

COMPUTER SCIENCE MAJOR WITH A SECOND MAJOR IN MATHEMATICS

The computer science major with a second major in mathematics requires 91-95 credits to be earned with a grade of "C" or higher.

Required Core Courses (61 credits)

COSC 236	Intro to Computer Science I (4)
COSC 237	Intro to Computer Science II (4)
COSC 280	Assembly Lang. & Computer Architecture (3)
COSC 336	Data and File Structure (3)
COSC 338	Computer Organization and Architecture (4)
COSC 439	Operating Systems (3)
COSC 455	Prog. Languages: Design and Implementation (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1)
(COSC 418 may be selected as a substitute for COSC 480)	
MATH 263	Discrete Mathematics (3)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Intro to Abstract Math (3)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Math (2)

Elective Courses (15-18 credits)

Computer Science (9-10 credits)

(2 courses from the following)

COSC 367	Discrete Structures (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 483	Design & Analysis of Algorithms (3)

(and 1 course from the following)

COSC 350	Data Communication and Teleprocessing (4)
COSC 412	Software Engineering using Ada (4)
COSC 415	Compiler Design
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)

or

(2 courses from the following)

COSC 350	Data Communications and Teleprocessing (4)
COSC 415	Compiler Design
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)

(and 1 course from the following)

COSC 367	Discrete Structures (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 461	Artificial Intelligence (3)
COSC 471	Computer Graphics (3)
COSC 483	Design & Analysis of Algorithms (3)

Mathematics (6-8 credits)

(2 courses from the following, at least one must be from MATH 377, 436, 437, 451)

MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)
MATH 467	Algebraic Structures (4)
MATH 473	Introductory Real Analysis (4)
MATH 475	Complex Analysis (3)
MATH 477	Topology (3)

Science Requirement (15-16 credits)

A sequence of two courses taken from Physics, Biology, or Chemistry. These must be courses accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from Physics, Biology or Chemistry. These must be from courses accepted for the major in that discipline. PHYS 244, 303, and 337 are not counted.

GenEd Requirement: COMM 131 (completed with a grade of "C" or better). This course can count for GenEd II.B.3.

MAJOR IN COMPUTER SCIENCE WITH A TRACK IN INFORMATION SYSTEMS

The computer science major with Information Systems Track requires 74-75 credits to be earned with a grade of "C" or higher.

Required COSC Courses (29 credits)

COSC 236	Intro to Computer Science I (4)
COSC 237	Intro to Computer Science II (4)
COSC 280	Assembly Lang. & Computer Architecture (3)
COSC 336	Data & File Structures (4)
COSC 338	Computer Organization & Architecture (4)
COSC 439	Operating Systems (3)
COSC 455	Prog. Languages: Design & Implementation (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1)
(COSC 418 may be selected as a substitute for COSC 480)	

Required MATH Courses (18 credits)

MATH 263	Discrete Mathematics (3)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 330	Introduction to Statistical Methods (4)
MNGT 363	Quantitative Methods (3)

Additional COSC Courses (12-13 credits)

COSC 335	Adv. Business Programming (3)
COSC 341	Adv. Concepts of Information Systems (3)
COSC 411	Systems and Design (3)
(COSC 407 and 409 can be used to replace COSC 411 and the following Elective)	

and at least one of the following

COSC 350	Data Communications and Teleprocessing (4)
COSC 412	Software Engineering Using Ada (4)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)
COSC 461	Artificial Intelligence (3)
COSC 471	Computer Graphics (3)

Business Requirement (15 credits)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
ECON 201	Microeconomics (3)
ECON 202	Macroeconomics (3)

One additional upper-division course from the Department of Management (3)

MINOR IN COMPUTER SCIENCE

All Computer Science minors are required to take 21 semester hours in computer science, of which 10 hours must be upper-division. Numerical Analysis I and II (MATH 435 and MATH 436) may be counted toward a Computer Science Minor.

MAJOR IN COMPUTER INFORMATION SYSTEMS

The Maryland Higher Education Commission has given approval for the department to start awarding a new Bachelor of Science degree in Computer Information Systems, beginning in Fall 1997. Please contact the department for more information about this new program.

MEETING GENERAL EDUCATION REQUIREMENTS

Effective Fall 1996, all students entering the university are required to meet the General Education (GenEd) requirements described elsewhere in this *Catalog*. Computer Science majors in particular should note the following Computer Science courses which may be used to satisfy GenEd requirements in various categories. The categories are indicated in parenthesis:

COSC 109	Computers and Creativity (I.E)
COSC 111	Information & Technology for Business (I.B)
COSC 311	Digital Technologies in Society (II.A.2)
COSC 321	Computerization and its Impacts (II.A.2)
COSC 418	Ethical & Societal Concerns of Comp Sci (II.A.2)

It is expected that more courses will be added to this list in the future. Course descriptions for these courses are given below. More information and a list of additional computer science GenEd courses can be obtained from the department.

TRANSFER CREDIT POLICY

Students intending to transfer into the Computer Science program should provide course descriptions and supportive materials from their institution for review by a departmental advisor. Community college students from local public institutions should be aware that agreements on equivalency of courses are maintained; they should inquire about the current agreement either at their institution or at Towson University. They should also be aware that community courses can only be counted as lower-division work. Transfer students are urged to gain a good background in mathematics.

SECOND BACHELOR'S PROGRAM

Baccalaureate degree holders may apply for enrollment in the second bachelor's program through the Office for Non-Traditional Undergraduate Program. Because of the high demand for computer personnel, the Computer Science major is often of interest to persons who wish to change careers. Students in this program must satisfy the requirements for the major and earn at least the last 30 hours at Towson University. Although there are computer science courses offered in the evening, students may find that some required courses must be taken during the day. Because of the sequence of prerequisites, a minimum of five terms is normally needed to complete the program.

DEPARTMENTAL ACTIVITIES

A student chapter of the Association for Computing Machinery (ACM) is the basis for the Computer Science Club. Meetings are held during the semester, with field trips and speakers featured. To recognize outstanding talent in the field of Computer Science, Towson University has a charter chapter of Upsilon Pi Epsilon (UPE), the first and only international Honor Society for the Computer Sciences. Members of UPE are outstanding undergraduate and graduate students in Computer Science.

DEPARTMENTAL AWARDS

The Mary Hudson Scarborough Award in Computer Science is given annually to the outstanding Computer Science graduate. Each semester Upsilon Pi Epsilon (UPE) presents the department the PE Award for Excellence in Computer Science. The award is given to an outstanding Computer Science major; one award is for a non-UPE COSC major and one award is for an active UPE member.



Department of Mathematics

Professors: CHOLLET, COUGHLIN, GHAHRAMANI. (*Chair*); HORAK, KIM, MAY, SIEGEL, SOHRAB

Associate Professor: AMINZADEH, BOULES, GOODSON, KRACH,

MORRISON, SHIRLEY, STERN, ZIMMERMAN

Assistant Professors: CHEN, JONES, KAPLON, ROSE, RUTENBERGS,

SUN, WATANABE, YARNEVICH

Visiting Associate Professor: MOULDS

Visiting Assistant Professor: MACKS

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PROGRAMS OF THE DEPARTMENT

The mathematics curriculum provides opportunities for students to do abstract reasoning applicable to many scientific or academic areas, to survey the field of mathematics, to study the applications of the discipline, and to prepare for additional study or for a career.

The Department of Mathematics offers the following programs: the *Major in Mathematics*, in which there are five concentrations; the *Minor in Mathematics*, designed to enhance major programs to which mathematics at the middle school or junior high school level; the *Minor in Mathematics with the Elementary Education Major*, for prospective elementary teachers who may wish to teach mathematics at the middle school or junior high school level; the *Minor in Applied Statistics*, designed to provide the knowledge and skills necessary for students to successfully enter quantitative career specialties within their chosen majors; and the *second major programs* offered with the Department of Economics and Computer & Information Sciences.

The Mathematics major has five areas of concentration from which to choose. The Mathematics Secondary Education concentration is for students who wish to become certified to teach mathematics in secondary schools. The Mathematics concentration emphasizes abstract mathematics. For students interested in the actuarial profession there is an Actuarial Science concentration that provides the necessary background required for entry-level positions in that field. The Applied Mathematics concentration and the Applied Mathematics and Computing concentration are designed for students who wish to apply mathematics to problems in business and industry. The Bachelor of Arts degree may be earned by adding a foreign language to the major course requirements. The language requirements can be met by completing the intermediate level of a modern foreign language or its equivalent.

MAJOR IN MATHEMATICS

Mathematics majors may choose from the following areas of concentration: Mathematics, Applied Mathematics, Applied Mathematics and Computing, Actuarial Science and Mathematics Secondary Education. Students must complete the GenEd requirements in addition to the requirements for a concentration.

MATHEMATICS CONCENTRATION

The Mathematics concentration requires 59-61 credits completed with a grade of "C" or higher.

Required Courses (47 credits)

COSC 236	Introduction to Computer Science I (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 379	Advanced Calculus (3)

MATH 467	Algebraic Structures (4)
MATH 473	Introductory Real Analysis (4)
MATH 475	Complex Analysis (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Electives

Two courses (6 credits) from the following courses:

MATH 315	Applied Combinatorics (3)
MATH 367	Theory of Numbers (3)
MATH 377	Mathematical Models (3)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)
MATH 463	Linear Algebra (3)
MATH 477	Topology (3)

Applications

Two courses (6-8 credits) from the following courses:

PHYS 241, PHYS 242, BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MGNT 365, MGNT 467, SOCI 391, with the restriction that only one of BIOL 401 and SOCI 391 may be selected.

APPLIED MATHEMATICS CONCENTRATION

The Applied Mathematics concentration requires 58-62 credits completed with a grade of "C" or higher.

Required Courses (46 credits)

COSC 236	Introduction to Computer Science I (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 379	Advanced Calculus (3)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Electives

Two courses (6-8 credits) from the following courses:

MATH 315	Applied Combinatorics (3)
MATH 332	Mathematical Statistics (4)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)
MATH 463	Linear Algebra (3)
MATH 473	Introductory Real Analysis (4)

Applications

Two courses (6-8 credits) from the following courses:

PHYS 241, PHYS 242, BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MNGT 365, MNGT 467, SOCI 391, with the restriction that only one of BIOL 401 and SOCI 391 may be selected.

APPLIED MATHEMATICS AND COMPUTING CONCENTRATION

The Applied Mathematics and Computing concentration requires 63-67 credits completed with a grade of "C" or higher.

Required Courses (51 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 336	Data Structures and File Organization (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 331	Probability (4)

MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 379	Advanced Calculus (3)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Electives

One course (3-4 credits) from the following courses:

MATH 315	Applied Combinatorics (3)
MATH 332	Mathematical Statistics (4)
MATH 374	Differential Equations (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)

Upper Division Computer Science Elective

One course (3-4 credits) from the following courses:

COSC 338	Computer Organization and Architecture (4)
COSC 439	Operations Systems (3)
COSC 455	Programming Languages: Design and Implementation (3)
COSC 461	Artificial Intelligence (3)
COSC 441	Computer Performance Evaluation (3)
COSC 457	Database Management Systems (3)

Applications

Two courses (6-8 credits) from the following courses:

BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MGNT 365, MGNT 467, PHYS 241, PHYS 242, SOCI 391, with the restrictions that only one of BIOL 401 and SOCI 391 may be selected, and that COSC 461 is not selected as the upper division Computer Science elective.

ACTUARIAL SCIENCE CONCENTRATION

The Actuarial Science concentration requires 72-72 credits completed with a grade of "C" or higher.

Required Courses (68 credits)

ACCT 201, 202	Accounting Principles I and II (6)
COSC 236	Introduction to Computer Science I (4)
ECON 201, 202	Microeconomic and Macroeconomic Principles (6)
ENGL 317	Writing for Business and Industry (3)
FIN 331	Principles of Financial Management (3)
FIN 332	Advanced Financial Management (3)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 331	Probability (4)
MATH 332	Mathematical Statistics (4)
MATH 435	Numerical Analysis I (3)
MATH 438	Life Contingencies I (3)
MATH 439	Life Contingencies II (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper Division Mathematics Elective

One course (3-4 credits) from the following courses:

MATH 377	Mathematical Models (3)
MATH 437	Operations Research (4)

MATHEMATICS SECONDARY EDUCATION CONCENTRATION

Mathematics majors in the Secondary Education concentration are eligible, upon graduation, to apply for certification to teach mathematics at both the middle and high school levels in the State of Maryland. Students in this concentration should be prepared to do their student teaching experience in their senior year. Any student who wishes to deviate from this policy must obtain permission from the Department of Mathematics prior to the beginning of the student's junior year. Consult the Secondary Education Department section in

this *Catalog* for additional course and professional requirements for preservice secondary education majors.

In addition to the University's GenEd requirements, students in this concentration must complete 78-80 credit hours earning a grade of "C" or better. However, a minimum cumulative GPA of 2.75 is required for student teaching.

Required Courses (55 credits)

COSC 236	Introduction to Computer Science I (4)
PHYS 241	General Physics I (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 301	History of Mathematics (3)
MATH 330	Introduction to Statistical Methods (4)
MATH 353	Euclidean and Non-Euclidean Geometries (3)
MATH 423	Teaching Mathematics in Secondary Schools (3)
MATH 426	Student Teaching in Secondary Education Mathematics (12)
MATH 428	Senior Seminar in Mathematics Education (2)

Upper Division Mathematics Electives

One course (3-4 credits) from the following courses:

MATH 367	Theory of Numbers (3)
MATH 467	Algebraic Structures (4)

Additional Elective

One course (3-4 credits) from the following courses:

PHYS 242	General Physics II (4)
MATH 315	Applied Combinatorics (3)
MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 379	Advanced Calculus (3)
MATH 473	Introductory Real Analysis (4)

Professional Education Courses (17 Credits)

EDUC 401	Foundations of Education (3)
ISTC 269	Laboratory in Instructional Hardware (1)
PSYC 201	Educational Psychology (3)
SCED 341	Principles of Secondary Education (4)
SCED 460	Teaching Reading in the Secondary Schools (3)
SPED 301	Introduction to Special Education (3)

SECOND MAJOR PROGRAMS

A student may declare a second major and obtain a degree that certifies that both majors have been completed. The Mathematics Department encourages majors to pursue a second major or a minor in subjects in which mathematics is applied. In cooperation with the Economics and Computer and Information Sciences Departments, the following courses of study have been developed to enable a student to obtain a second major in computer science or economics.

MATHEMATICS MAJOR WITH A SECOND MAJOR IN ECONOMICS

The Mathematics major with the second major in Economics requires 67-69 credits completed with a grade of C or higher.

Required Courses (58 credits)

COSC 236	Introduction to Computer Science I (4)
ECON 201	Microeconomic Principles (3)
ECON 202	Macroeconomic Principles (3)
ECON 309	Intermediate Price Theory (3)
ECON 310	Macroeconomic Theory (3)
ECON 313	Money and Banking (3)
ECON 451	Introduction to Mathematical Economics (3)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 331	Probability (4)
MATH 332	Mathematical Statistics (4)

- MATH 377 Mathematical Models (3)
MATH 490 Senior Seminar in Mathematics (2)

Upper Division Mathematics Elective

(Two courses (6-7 credits) from the following:

- MATH 374 Differential Equations (3)
MATH 435 Numerical Analysis I (3)
MATH 436 Numerical Analysis II (3)
MATH 437 Operations Research (4)

One course (3-4 credits) from the following:

- MATH 367 Theory of Numbers (3)
MATH 451 Graph Theory (3)
MATH 467 Algebraic Structures (4)
MATH 473 Introductory Real Analysis (4)
MATH 475 Complex Analysis (3)
MATH 477 Topology (3)

MATHEMATICS MAJORS WITH A SECOND MAJOR IN COMPUTER SCIENCE

The Mathematics major with the second major in Computer Science requires 91-95 credits completed with a grade of "C" or higher.

Required Core Courses (61 credits)

- COSC 236 Intro. to Computer Science I (4)
COSC 237 Intro. to Computer Science II (4)
COSC 280 Assembly Lang. & Computer Architecture (3)
COSC 336 Data and File Structures (4)
COSC 338 Computer Organization and Architecture (4)
COSC 455 Prog. Languages: Design and Implementation (3)
COSC 439 Operating Systems (3)
COSC 457 Database Management System (3)
COSC 480 Senior Seminar (1) (COSC 418 may be selected as a substitute for COSC 480)
MATH 263 Discrete Mathematics (3)
MATH 265 Elementary Linear Algebra (4)
MATH 267 Introduction to Abstract Mathematics (4)
MATH 273 Calculus I (4)
MATH 274 Calculus II (4)
MATH 275 Calculus III (4)
MATH 330 Introduction to Statistical Methods (4)
MATH 435 Numerical Analysis I (3)
MATH 490 Senior Seminar in Mathematics (2)

Upper Division Mathematics and Computer Science Elective Courses (15-18 credits)

Computer Science

Either

Two courses (6 credits) from the following courses:

- COSC 367 Discrete Structures (3)
COSC 417 Introduction to the Theory of Computing (3)
COSC 483 Design & Analysis of Algorithms (3)

and one course (3-4 credits) from the following courses:

- COSC 350 Data Communications and Teleprocessing (4)
COSC 412 Software Engineering using Ada (4)
COSC 415 Compiler Design (3)
COSC 441 Computer Performance Evaluation (3)
COSC 459 Computer Simulation and Modeling (3)

Or

Two courses (6-7 credits) from the following courses:

- COSC 350 Data Communications and Teleprocessing (4)
COSC 415 Compiler Design (3)
COSC 441 Computer Performance Evaluation (3)
COSC 459 Computer Simulation and Modeling (3)

and one course (3 credits) from the following courses:

- COSC 367 Discrete Structures (3)
COSC 483 Design & Analysis of Algorithms (3)
COSC 417 Introduction to the Theory of Computing (3)
COSC 461 Artificial Intelligence (3)
COSC 471 Computer Graphics (3)

Mathematics

Two courses (6-8 credits) from the following courses (at least one must be from: MATH 377, MATH 436, MATH 437 or MATH 451):

- MATH 331 Probability (4)
MATH 374 Differential Equations (3)
MATH 377 Mathematical Models (3)
MATH 436 Numerical Analysis II (3)
MATH 437 Operations Research (4)
MATH 451 Graph Theory (3)
MATH 457 Differential Geometry (3)
MATH 467 Algebraic Structures (4)
MATH 473 Introductory Real Analysis (4)
MATH 475 Complex Analysis (3)
MATH 477 Topology (3)

Science Requirement (15-16 credits)

A sequence of two courses taken from Physics, Biology, or Chemistry. These must be courses accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from Physics, Biology, or Chemistry. These must be from courses accepted for the major in that discipline. PHYS 244, 303, and 337 are not counted.

GenEd Requirements:

COMM 131 (completed with a grade of "C" or better). This course can count for GenEd II.B.3.

MINOR IN MATHEMATICS

The Minor in Mathematics requires 23-24 credits completed with a grade of "C" or higher. The minor requires 11-12 credits of specific courses plus at least 12 upper-division credits in mathematics (excluding MATH 305, MATH 321, MATH 323, MATH 324, MATH 326, and MATH 423).

Required Courses (11-12 credits)

- MATH 267 Introduction to Abstract Mathematics (4)
or
MATH 263 Discrete Mathematics (3)
MATH 273 Calculus I (4)
MATH 274 Calculus II (4)

Upper Division Mathematics Electives (12 credits)

Students must select at least twelve credit hours of upper-division electives in mathematics excluding MATH 305, MATH 321, MATH 323, MATH 324, MATH 326, and MATH 423.

ELEMENTARY EDUCATION MAJOR WITH THE MATHEMATICS MINOR

Elementary Education majors who complete a mathematics minor will possess the necessary concepts and skills to effectively teach both elementary and middle school mathematics. Special field-based courses are available so that students will experience teaching mathematics (specifically at the middle school level) in addition to the other elementary school subjects. Students in this program should be advised by faculty members in both the Elementary Education and Mathematics Departments. Early Childhood Education majors who wish to minor in mathematics should consult with faculty members in both the Early Childhood Education and Mathematics Departments for appropriate course work and counseling.

The Minor in Mathematics for the Elementary Education Major requires 25-26 credit hours, with each course completed with a grade of "C" or higher. Students must also complete requirements for their major as specified by the Department of Elementary Education. The minor requires the six courses listed below, plus at least three additional credit hours of upper-division electives in mathematics.

Required Courses (22 credit hours)

- MATH 267 Introduction to Abstract Mathematics (4)
MATH 273 Calculus I (4)
MATH 274 Calculus II (4)

MATH 301	History of Mathematics (3)
MATH 330	Introduction to Statistical Methods (4)
MATH 353	Euclidean and Non-Euclidean Geometries (3)

Upper Division Mathematics Elective

One course (3-4 credits) from the following courses:

MATH 305	Chance (3)
MATH 315	Applied Combinatorics (3)
MATH 326	The Mathematics of Information Science (3)
MATH 331	Probability (4)
MATH 367	Theory of Number (3)

MINOR IN APPLIED STATISTICS

The Minor in Applied Statistics is designed to provide the knowledge and skills necessary for students to successfully enter quantitative career specialties within their chosen majors. It also provides an excellent background for students to successfully complete graduates studies and research within their chosen majors.

The Minor in Applied Statistics requires six courses (18 to 21 credits) completed with a grade of "C" or better. The minor consists of two required courses, three statistics electives and one additional elective.

Required Courses (6-8 credits)

One course (3-4 credits) from the following courses:

MATH 231	Basic Statistics I (3)
MATH 237	Elementary Biostatistics (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 332	Mathematical Statistics (4)
ECON 301	Fundamental Statistics for Economics (3)
PSYC 212	Behavioral Statistics (4)

One course (3-4 credits) from the following courses:

MATH 211	Calculus for Applications (3)
MATH 273	Calculus I (4)

Statistics Electives (9 credits)

Three courses from the following :

MATH 333	Applied Regression and Correlation Analysis (3)
MATH 334	Nonparametric Statistical Methods (3)
MATH 335	Sampling Techniques (3)
MATH 336	Statistical Methods in Quality Control (3)
MATH 433	Applied Analysis of Variance (3)

Additional Elective

One course (3-4 credits) from the following:

One additional course from among any of the statistics electives above	
ACCT 401	Auditing I (3)
COSC 441	Computer Performance Evaluation (3)
ECON 401	Introduction to Econometrics (3)
EDUC 414	Educational Tests and Measurements (3)
MATH 331	Probability (4)
MNGT 363	Quantitative Methods (3)
PSYC 411	Tests and Measurements (3)
SOCI 391	Research Methods (3)

DUAL-DEGREE ENGINEERING PROGRAM

Refer to College of Natural and Mathematical Sciences' Pre-Professional Preparation section in this *Catalog*.

COURSE PREREQUISITES

The Department strictly enforces prerequisites for all mathematics courses.

TRANSFER STUDENT POLICIES

Only courses approved by the Mathematics Department may be applied to a major or minor program offered by the department. If a student submits mathematics credits that are more than five years old at the time of admission or readmission, the chair, after reviewing these records, may require that some courses be repeated or that a new course be submitted.

Secondary Education Mathematics majors are required to take

MATH 423, MATH 426, MATH 428, and at least four (4) additional upper-division courses of their mathematics major program at Towson University.

All other Mathematics majors are required to take MATH 490 (Senior Seminar in Mathematics) and at least six (6) additional upper-division courses of their mathematics major program at Towson University.

Mathematics minors must take at least four (4) courses of their mathematics minor program at Towson University; at least two (2) courses must be at the upper-division level.

NOTES FOR MAJORS AND MINORS

Mathematics majors with minors in Economics may satisfy their Applications requirement by completing ECON 451.

Mathematics majors or minors who receive a grade of "D" in a 100 level course prerequisite to calculus must repeat the course no later than concurrently with calculus. Mathematics majors or minors must attain a grade of "C" or better in any 200, 300 or 400 level course used as a prerequisite or applied towards a major or minor. Unless otherwise noted, prerequisites must be satisfied prior to taking a course. The program of the minor should be approved by the student's mathematics department advisor.

GENERAL EDUCATION REQUIREMENTS IN MATHEMATICS

Each student should consult those portions of this *Catalog* describing his or her major and minor programs to see whether specific mathematics courses are required or recommended.

The I-C (College Mathematics) category of the GenEd requirements may be satisfied by any of the mathematics courses listed below, except as noted. Students, however, should enroll in the mathematics course for which they have the necessary high school or collegiate background and which is most relevant to their program of study. Placement tests may be used to help select the appropriate course.

MATH 105 is intended as a terminal mathematics course and satisfies the GenEd I.C requirement.

MATH 111 is designed specifically for students majoring in business, economics, psychology, or the social sciences, and satisfies the GenEd I.C requirement.

MATH 115 and MATH 119 are designed specifically for students majoring in mathematics, computer science, and the physical or biological sciences, and either one satisfies the GenEd I.C requirement.

The sequences of MATH 204-205 and MATH 206-207 are designed specifically for students majoring in elementary or early childhood education. Only the second course of each sequence (MATH 205 and MATH 207) satisfies the GenEd I.C requirement.

MATH 211, MATH 231, MATH 237, MATH 263, MATH 273, MATH 274, and MATH 275 are intended for students with additional previous preparation in mathematics. Each one satisfies the GenEd I.C requirement.

MATH 293 is an Honors course in mathematics. It satisfies the GenEd I.C requirement.

The II.A.2 category (Science, Technology, and Society) of the GenEd requirements may be satisfied by MATH 305.

MATHEMATICS COURSE NUMBERS

A note on the numbering system: the left digit of the course number indicates the area of the content. The middle digit of the course number indicates the area of the content; 0-general; 1-service; 2-mathematics education; 3-probability, statistics and numerical analysis; 5-geometry; 6-algebra; 7-analysis; 9-readings, special topics, and seminars in mathematics.

Department of Physics

Professors: BATES, HUANG, LARSEN, LOH, (*Chair*); MOLITOR, UKENS
Associate Professors: BURKS, CHEN, GREENE, JOHNSON
Assistant Professors: KRAUSE, KREISEL, SCHAEFER, WESSNER
Visiting Assistant Professor: CROSS

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Smith Hall, Room 445, (410) 830-3020, 830-3021

PROGRAMS OF THE DEPARTMENT

The Physics Department offers an undergraduate program leading to a Bachelor of Science or Arts degree in Physics. This program is divided into two main concentrations designed to give the greatest possible flexibility as preparation for graduate study in physics, astrophysics, medicine, engineering or other allied fields and for professional practice as a physicist in industrial, governmental or institutional laboratories.

In order to provide students a broad and solid base in physics and also to provide the flexibility which enables the student to take courses in areas where physics can be applied, all Physics majors take a series of basic physics core courses. The first courses are General Physics I, II and III (PHYS 241, 242 and 243). They provide an introduction to both classical and modern physics. The junior and senior core physics courses treat classical and modern physics in greater depth.

It is recommended that those who intend to pursue graduate studies in physics take the General Physics Concentration as well as additional physics electives and mathematics courses. Those who intend to participate in fundamental or applied research and development in industrial or government laboratories are encouraged to take the Applied Physics Concentration and other physics electives. Recommended mathematics electives are Calculus III, Numerical Analysis I, Numerical Analysis II and Differential Equations.

Students may wish to elect some foreign language also as preparation for graduate study. Students may also supplement the core program of study by participation in a guided independent study and/or ongoing research project. Up to six credit hours of such courses (Independent Study, Directed Reading, etc.) may count toward required physics electives. A combination of well-grounded preparation in fundamentals plus the availability of an individually tailored program of study is designed to optimize the student's preparation for graduate school or a professional career. In addition to physics courses, all majors are required to complete courses in computer science, mathematics and chemistry. Students who intend to major in physics should contact the Physics Department in order to be assigned a faculty advisor. The faculty advisor will assist students in planning a program which will meet their special needs and is also available for advising on career opportunities and employment. Physics majors are required to complete 16, and minors 8, of the required upper-division credits in physics at this university. Students should be aware that most advanced physics courses (300 and 400 level) may be offered in either the first semester or the second semester, but not in both semesters. Some physics electives are only offered every other year. Advisors will have information on the courses offered and on the schedules.

Students *must* see their advisor no later than the time of their matriculation for the third semester in general physics which is normally the beginning of the spring semester of their sophomore year. The student, after consultation with his or her advisor, will propose a tentative plan for completing all graduation requirements including those for the major. This selection of electives for the various concentrations must be approved by their advisor. The plan may be modified from time to time, but the modification must be approved by the major advisor. Students may also organize an individualized course of studies. This gives the students the option to select a plan which reflects their interest in a special area of physics. The array of courses must have internal coherence and be *approved* by the major advisor.

Physics Honors Program

The Physics Department offers an honors program for students with superior scholarship in physics. The honors program is designed to provide exceptional students with maximum opportunity for intensive study of physics at an advanced level. Students with demonstrated ability will be invited by the department to participate in this program. Such students will work closely with faculty members and will participate in an individualized program of research, directed readings, and independent studies. Students who complete an approved program will receive a diploma with the designation of Bachelor of Arts or Bachelor of Science with Honors, and Departmental Honors will also appear on the transcript.

Edward I. Rubendall Physics Achievement Awards

The awards were established in honor of Professor Emeritus Rubendall by friends of the department. The awards are presented annually to outstanding juniors and seniors majoring in Physics.

Requirements for the Major

The major in physics requires 53-54 credits in Physics Core and Non-Physics requirements completed with a grade of "C" or higher, plus additional credits for specific tracks. The General Education requirements must also be completed.

Required Physics Core Courses (31 credits)

PHYS 241, 242 & 243	General Physics I, II, III (4, 4, 3)
PHYS 307	Introductory Mathematical Physics (3)
PHYS 311	Modern Physics (4)
PHYS 341-342	Intermediate Physics Laboratory I, II (3, 3)
PHYS 351	Mechanics I (3)
PHYS 354	Electricity and Magnetism I (3)
PHYS 485	Physics Seminar I (1)

Non-Physics Requirements (22-23 credits)

CHEM 101-102	General Chemistry I, II (4, 4)
COSC 165	Fundamentals of Computing or equivalent (3)
MATH 273-274	Calculus I, II (4, 4)
MATH xxx	Upper-Division Mathematics course (3-4)

Requirements for the General Track in Physics

All required courses in this track must be completed with a grade of "C" or higher. The General Education requirements must be completed. The physics core courses and the non-physics requirements must be completed as well as the following courses:

Advanced Physics Courses (14 credits)

PHYS 455	Quantum Mechanics (3)
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Two courses from among the following (6)

PHYS 352	Thermodynamics and Kinetic Theory (3)
PHYS 451	Mechanics II (3)
PHYS 454	Electricity and Magnetism II (3)
PHYS 457	Solid State Physics (3)
PHYS 459	Nuclear Physics (3)

Five credits of physics electives

Recommended Physics Electives

PHYS 335	Basic Electronics (4)
PHYS 352	Thermodynamics and Kinetic Theory (3)
PHYS 361	Optics Fundamentals (4)
PHYS 370	Selected Topics in Contemporary Astrophysics (3)
PHYS 421	Fundamental Particles (3)
*PHYS 451	Mechanics II (3)
PHYS 453	Physical Optics (3)
*PHYS 454	Electricity and Magnetism II (3)
PHYS 457	Solid State Physics (3)
PHYS 459	Nuclear Physics (3)

*Highly recommended for students planning to attend graduate school.

Required Courses for Applied Track in Physics

All required courses in this track must be completed with a grade of "C" or higher. The General Education requirements must be completed. The physics core courses and the non-physics requirements must be completed as well as the following courses:

Advanced Physics Courses (14 credits)

PHYS 361 Optics Fundamentals (4)

One course from

PHYS 335 Basic Electronics (4)

PHYS 337 Digital Electronics (4)

PHYS 437 Introduction to Microprocessor-Based Digital Systems (3)

One course from

PHYS 453 Physical Optics (3)

PHYS 457 Solid State Physics (3)

Three or four credits of physics electives

Recommended Physics Electives

PHYS 335 Basic Electronics (4)

PHYS 337 Digital Electronics (4)

PHYS 352 Thermodynamics and Kinetic Theory (3)

PHYS 435 Electronics (3)

PHYS 437 Introduction to Microprocessor-Based Digital Systems (3)

PHYS 445 Lasers and Holography (3)

PHYS 453 Physical Optics (3)

PHYS 455 Quantum Mechanics (3)

PHYS 457 Solid State Physics (3)

PHYS 459 Nuclear Physics (3)

PHYS 461 Electro-Optics (4)

PHYSICS SECONDARY EDUCATION PROGRAM

The Physics Department offers a Physics Secondary Education program that leads to a Bachelor of Science or Arts degree in Physics. This program is designed for those students who plan to teach physics at the secondary level.

In addition to the General Education requirements and the requirements specified by the Department of Education, students must complete 31 credits in physics courses and 30 credits in non-physics courses. For certification purposes (NSTA) students should include the course WRIT 312 (History of Science). All courses required for the major must be completed with a grade of "C" or higher.

Requirements for the Major**Physics Core Courses (31 credits)****Non-Physics Requirements (30 credits)**

BIOL 201 Biology I (4)

CHEM 101-102 General Chemistry I, II (4, 4)

COSC 165 Fundamentals of Computing (3)

MATH 273-274 Calculus I, II (4, 4)

WRIT 312 History of Science (3)

Four credits from among the following earth sciences:

GEOL 121 Physical Geology (4)

PHSC 161 General Astronomy I (3)

GEOL 357 Physical Oceanography (4)

PHSC 491 Independent Study (in observational astronomy) (1)

Required Secondary Education Courses (29-32 credits)

EDUC 401 Foundations of Education (2)

PSYC 201 Educational Psychology (3)

SCED 341 Principles of Secondary Education* (3)

SCED 380 Teaching Science in the Secondary School* (3)

SCED 393 Student Teaching in Secondary Education-Science (2)

SCED 421 Field Course in Secondary Science Teaching Methods

SCED 460 Teaching Reading in Secondary School (3)

SPED 301 Introduction to Special Education (3)

*Must be taken prior to student teaching.

**To be taken concurrent with student teaching

Total credits for the Major: 90-93

Suggested Course Schedules for Majors

By its very nature, physics is more hierarchical in its course structure than typical humanities or social science disciplines. Therefore, many courses depend heavily on prerequisite courses (such as calculus and

general physics). Any time which is required to prepare for calculus, such as taking MATH 119, must be added to the four year minimum. Normally, progress in mathematics and general physics is the pacesetter.

Suggested Course Schedule for the General Track in Physics**FRESHMAN YEAR**

First Semester (14 credits)

CHEM 101 Chemistry I (4)

ENGL 102 Writing for a Liberal Education (3)
GenEd or Electives (3)

MATH 273 Calculus I (4)

Second Semester (15 credits)

CHEM 102 Chemistry II (4)

COSC 165 Fundamentals of Computing (3)

MATH 274 Calculus II (4)

PHYS 241 General Physics I (4)

SOPHOMORE YEAR

First Semester (15 credits)

MATH xxx Upper-Division Math Elective (3/4)
GenEd or Electives (7)

PHYS 242 General Physics II (4)

Second Semester (15 credits)

PHYS 243 General Physics III (3)

PHYS 307 Introductory Mathematical Physics (3)

PHYS xxx Physics Elective (3)

GenEd or Electives (6)

JUNIOR YEAR

First Semester (16 credits)

PHYS 311 Modern Physics (4)

PHYS 341 Intermediate Physics Laboratory I (3)

PHYS 351 Mechanics I (3)

Electives (6)

Second Semester (15 credits)

PHYS 342 Intermediate Physics Laboratory II (3)

PHYS 354 Electricity and Magnetism I (3)

PHYS xxx Physics Elective (3)

Electives (6)

SENIOR YEAR

First Semester (16 credits)

PHYS 455 Introductory Quantum Mechanics (3)

PHYS 485 Physics Seminar (1)

PHYS xxx Physics Elective (3)

Second Writing course (3)

Electives (6)

Second Semester (15 credits)

PHYS xxx Physics Elective (5)

Physics and Other Electives (10)

Suggested Course Schedule for the Applied Track in Physics**FRESHMAN YEAR**

First Semester (14 credits)

CHEM 101 Chemistry I (4)

ENGL 102 Writing for a Liberal Education (3)
GenEd or Electives (3)

MATH 273 Calculus I (4)

Second Semester (15 credits)

CHEM 102 Chemistry II (4)

COSC 165 Fundamentals of Computing (3)

MATH 274 Calculus II (4)

PHYS 241 General Physics I (4)

SOPHOMORE YEAR

First Semester (14-15 credits)

PHYS 242 General Physics II (4)

MATH xxx Upper-division Math Elective (3/4)
GenEd or Electives (3)

Second Semester (13 credits)

PHYS 243	General Physics III (3)
PHYS 307	Introductory Mathematical Physics (3)
PHYS 3xx	300 level Electronics Elective (4) GenEd or Electives (3)

JUNIOR YEAR

First Semester (16 credits)

PHYS 311	Modern Physics (4)
PHYS 341	Intermediate Physics Laboratory I (3)
PHYS 351	Mechanics I (3) Electives (6)

Second Semester (15 credits)

PHYS 342	Intermediate Physics Laboratory II (3)
PHYS 354	Electricity and Magnetism I (3)
PHYS 361	Optics Fundamentals (3) Electives (6)

SENIOR YEAR

First Semester (16 credits)

PHYS 485	Physics Seminar (1)
PHYS xxx	Physics Electives (6) Second Writing Course (3) Electives (6)

Second Semester (15 credits)

PHYS xxx	Physics Electives (5) Physics and Other Electives (10)
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Suggested Course Schedule for the Physics Secondary Education Major

Physics Teaching Majors are not required to take any physics electives but are encouraged to take as much physics and mathematics as possible.

For recommended course schedule contact the Physics Department.

MINOR IN PHYSICS

An important aspect of the overall contribution of physics is its impact on other disciplines. This program is designed to provide majors in any of the sciences, mathematics, business, or humanities with a background in physics which will broaden their understanding and enhance their career opportunities. This program requires the student to complete the following courses.

Required Courses (24 credits)

PHYS 241, 242 & 243	General Physics I, II, III (4, 4, 3)
PHYS 311	Modern Physics (4)
PHYS xxx	Upper-division physics courses (9)

Students interested in the Physics Minor program should consult the Physics Minor Advisor as soon as possible in order to design a program to meet their special needs.

To provide greater flexibility in selecting electives, students may organize their course of studies to supplement their major programs and/or reflect their special interests. The array of courses should have internal coherence and must be approved by their major advisor.

The minor in physics requires a minimum of 24 credits in physics. At least 8 upper-division credits must be taken at Towson. A grade of "C" or better must be earned in each course.

DUAL-DEGREE ENGINEERING PROGRAM

The Dual-Degree Engineering Program offers a student the opportunity to obtain a Bachelor of Science or Arts in Physics and an Engineering degree from University of Maryland at College Park. Physics has traditionally been an important part of the curriculum for engineers, and many engineering programs (Electrical, Nuclear Engineering, and others) grew out of physics departments. Completion of the physics program at Towson, complemented by the engineering education, will provide the student a foundation in the fundamentals that allows him or her to meet the challenges of future technologies. Dual Degree candidates from Towson are eligible to seek a baccalaureate degree majoring in any one of the following areas at

University of Maryland, College Park:

Aerospace Engineering	Fire Protection Engineering
Biological Resources Engineering	Mechanical Engineering
Chemical Engineering	Material Science Engineering
Civil Engineering	Nuclear Engineering
Electrical Engineering	B.S. in Engineering

In order to be eligible for transfer into the engineering program of his or her choice at the University of Maryland, the student must have included in his or her work at Towson the following courses: CHEM 101 102; COSC 236; MATH 273, 274, 275, 374 and PHYS 241, 242, 243, 351, 451 and 352. Normally students must maintain a GPA of at least 3.00 overall and above 3.00 in science and mathematics. Students should consult the Department on specific GPA requirements. Also, some areas in the list above require additional courses at Towson. See the Department for details.

After completing the physics degree requirements of Towson University (normally by the end of the first year at the University of Maryland), the student will receive a Bachelor's degree in Physics from Towson University. The baccalaureate engineering degree in the student's area of specialization will be awarded when the requirements in the College of Engineering are completed.

BACHELOR OF SCIENCE AND MASTER OF SCIENCE IN COMPUTER SCIENCE

The Departments of Physics and of Computer and Information Sciences offers a "four-one" program which will lead to the degrees B.S. in Physics and M.S. in Computer Science in five years. Students can satisfy the requirements for a physics major and graduate with their class. By taking additional computer science courses as their free electives they will be able to take six to nine hours of graduate computer science courses in their senior year. (These graduate courses will not be counted toward their undergraduate degree requirements.) The remaining courses and thesis requirements for the M.S. in Computer Science would then be completed in a fifth year.

This option is especially attractive to students who are considering dual majors in Physics and Computer/Information Sciences or who are planning a career in the area of computational sciences.

Those students interested in the four-one program should declare their intent by the end of the second (sophomore) year and meet with Dr. Behforooz, the Computer Science Graduate Coordinator, early in the fall of their third (junior) year.

Required Courses in Computer and Information Sciences and Mathematics:

MATH 263	Discrete Mathematics (3)
*COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 280	Assembly Language and Computer Architecture (3)
‡COSC 336	Data and File Structure (4)
COSC 338	Computer Organization and Architecture (4)

*COSC 236 will replace the Physics requirement of COSC 165

Students may take PHYS 337 and PHYS 437 in place of COSC 280 and COSC 338.

‡Students completing COSC 236 and COSC 237 with grades of "B" or better are exempt from taking COSC 336.

MAJOR IN NATURAL SCIENCE

The Natural Science Major offers a concentration in Geology and two interdisciplinary tracks designed to give a broad view of the sciences or to provide specialization in the Earth Sciences. The tracks available are Earth Science and General Science.

Students who plan geology-related careers, graduate school in the geological sciences, or secondary school earth science teaching should consider this major with a Geology concentration. Students interested in this concentration should see Dr. Burks early in their education at this university.

Prospective secondary or middle school teachers of Earth Science are advised to select the Earth Science track, while those who intend to

teach General Science may find the interdisciplinary General Science track more suited to their needs. Students planning on teaching careers need to plan their programs to meet state certification requirements and should have an advisor in the Secondary Education Department as well as a science advisor. Students selecting the Earth Science track should see Dr. Burks early in their education at this university, while those in the General Science track should see Dr. Greene.

Students selecting the Natural Science major should be aware that the interdisciplinary nature of the program necessitates many lower-division course credits. In order to meet the university requirement of 23 upper-division credits, some upper-division credits may be earned outside the major.

Students should also be aware that the requirements for entrance into graduate programs in science might not be met by any of the tracks *except* the Geology concentration.

A minimum of 25 credits applied toward completion of a concentration or a track must be taken at Towson University.

Requirements for the Major

The following core courses are required for all concentrations in the Natural Science major. Students in the Geology concentration may substitute MATH 273 (Calculus I) or MATH 231 (Basic Statistics) for COSC 165 (Fundamentals of Computing).

Core Courses (36-38 credits)

BIOL 201-202	Biology, I, II (4, 4)
	<i>or</i>
BIOL 110	Contemporary General Biology (4)
	<i>and either</i>
BIOL 205	General Botany (4)
	<i>and either</i>
BIOL 207	General Zoology (4)
CHEM 101-102	General Chemistry I, II (4, 4)
PHYS 211-212	General Physics I, II (4, 4)
	<i>or</i>
PHYS 241-242	General Physics, I, II (4, 4)
PHSC 121	Physical Geology (4)
COSC 165	Fundamentals of Computing (3)
MATH 115	Mathematics for the Sciences (3)
	<i>or</i>
MATH 119	Precalculus (4)

Undergraduate Research (2-3 credits) one of the following courses:

BIOL 491	Independent Research in Biology
PHSC 401	Advanced Laboratory in Physical Science
CHEM 391	Special Program in Chemistry

Geology Concentration (15-16 credits)

GEOL 123	Historical Geology (3)
	<i>or</i>
GEOL 323	Geomorphology (4)
GEOL 321	Structural Geology (4)
GEOL 331	Mineralogy (4)
GEOL 333	Igneous and Metamorphic Petrology (4)

Electives (11-12 credits)

Students complete three additional upper division courses in geology or two such courses and

BIOL 307	Introduction to Paleontology (4)
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Earth Science Track

The Earth Science Track requires 24-25 credits (in addition to the core courses) completed with a "C" or higher.

Required courses (13 credits)

GEOG 373	Climatology (3)
GEOG 377	Meteorology (4)
PHSC 161	Astronomy I (3)
GEOL 357	Physical Oceanography (3)

Electives (11-12 credits)

Eleven or twelve credits should be chosen from the following:

Any upper-division Geology course(s).	
GEOL 123	Historical Geology (3)
PHSC 361	Astronomy II (3)
BIOL 307	Introduction to Paleontology (4)
Selected upper-division Geography courses (by consent of advisor)	

General Science Track

The general Science Track requires 27 credits (in addition to the core courses) completed with a grade of "C" or higher.

Required Courses (15 credits)

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
BIOL 402	General Ecology (4)
PHSC 161	Astronomy I (3)

Electives (12 credits)

Any Upper Division courses in Astronomy, Biology, Chemistry, Geography, Geology or Physics. (Upper Division Geography courses must be approved by Advisor and may total no more than six credits).

Course Descriptions

THE MEANING OF COURSE NUMBERS

Each department of the university has one or more abbreviations for each general subject area (e.g., French in the modern language department). The code abbreviations are shown in parentheses at the head of the course listings. These abbreviations form a four-letter code, which precedes a three-digit Course Classification Number, forming a seven-character Course Number. Each course has a distinctive number with the following significance:

Course Classification Numbers	Significance of Numbers
.001-.009	Temporary, Minimester Courses.
.010-.099	Special Courses with and without credit and Physical Education Lab skill courses with credit.
.101-.299	Lower-Division Undergraduate Courses (UG)
.301-.499	Upper-Division Undergraduate Courses. Certain courses may be taken for either graduate or undergraduate credit. (UG & G) Their graduate courses numbers are in brackets.
.500-.899	Graduate Division Courses.

ALPHA & NUMERIC DISCIPLINE CODES

Accounting	ACCT
Adult Education	ADED
African-American Studies	BLST
American Studies	AMST
Anthropology	ARTH
Art	ART
Art Education	ARED
Biology	BIOL
Chemistry	CHEM
Chinese	CHNS
College of Business & Economics	CBEC
Communication Sciences & Disorders	SPPA
Computer Science	COSC
Dance	DANC
Developmental Mathematics	DVMT
Developmental Reading	DVWR
Early Childhood Education	ECED
Economics	ECON
Elementary Education	ELED
English	ENGL
Finance	FIN
French	FREN
General Education	EDUC
General Studies	GENL
Geography & Environmental Planning	GEOG
German	GERM
Greek	GRK
Health Science	HLTH
Hebrew	HEBR
History	HIST
Instructional Technology	ISTC
Italian	ITAL
Japanese	JPNS
Latin	LATN
Legal Studies	LEGL
Management	MNGT
Marketing	MKTG
Mass Communication	MCOM
Mathematics	MATH
Medical Technology	MDTC
Music	MUSC
Music Applied	MUSA
Music Education	MUED
Nursing	NURS
Occupational Therapy	OCTH
Philosophy and Religion	PHIL
Physical Education	PHEC

Physical Science	PHSC
Physics	PHY'S
Political Science	POSC
Portuguese	POR%T
Psychology	PSYC
Russian	RUSS
Safety Education	DRED
Science Education	SCIE
Secondary Education	SCED
Sociology	SOCI
Spanish	SPAN
Special Education	SPED
Speech Communication	SPCH
Theatre Arts	THEA
Women's Studies	WMST
Writing	WRIT

Sequential Courses

Courses whose numbers are separated by a hyphen are to be taken in sequence. When course numbers are separated by a comma, either semester may be taken independently of the other. (See Prerequisites.)

Elective Courses

Students majoring in the various areas need to choose their electives with extreme care. Before registering for courses that are not required, students should consult their advisors. The advice of the instructor of the course or the chair of the department in which the elective course is listed may be needed before a decision is made concerning the choice of an elective.

Credit Value of Courses

The semester credit value of the course is indicated in the parentheses following the title.

Time of Offering

All required courses are usually offered at least once a year. Elective courses in each department are offered on a regular rotation so that each is available at least once every three years. All courses are offered subject to sufficient enrollment.

ACCOUNTING (ACCT)

Lower Division

ACCT 201 ACCOUNTING PRINCIPLES I (3) This course covers the fundamental accounting principles beginning with the analysis of business transactions, and emphasizes the procedural aspects of the recording process, record-keeping and management techniques. The specific accounting principles concerning cash, receivables, inventory, fixed assets, current liabilities and payroll are covered in a less theoretical and more procedural approach. (UG)

ACCT 202 ACCOUNTING PRINCIPLES II (3) This course covers the fundamental accounting principles concerning financial statements and their analysis. It emphasizes the procedural aspects of accounting principles concerning long-term liabilities, partnership and corporation equity accounts, operating expense applications, and manufacturing accounting. It also covers preparation of the statement of cash flows and the techniques of financial analysis. Prerequisite: ACCT 201 with a grade of "C" or better. (UG)

ACCT 211 HONORS ACCOUNTING PRINCIPLES I This course is similar to ACCT 201 except that it emphasizes more conceptual approaches to accounting and requires completion of a research paper, case studies and practice sets. It also requires a considerable amount of computer based instruction. Prerequisites: SAT scores 550 or above, Verbal; 600 or above, Math.

ACCT 212 HONORS ACCOUNTING PRINCIPLES II This course is similar to ACCT 202 except that it emphasizes more conceptual approaches to accounting and requires completion of a research paper, case studies and practice sets. It also requires a considerable amount of computer based instruction. Prerequisites: SAT scores 550 or above, Verbal; 600 or above, Math and ACCT 211 with a grade of "C" or better.

Upper Division

ACCT 301 INTERMEDIATE ACCOUNTING I (3) GAAP accounting theory; analysis of financial statements; revenue recognition methods; accounting for changes and errors and for changes in prices; financial statement analysis. Prerequisite: ACCT 202 with a grade of "C" or better. (UG)

ACCT 302 INTERMEDIATE ACCOUNTING II (3) Analysis of assets (cash, receivables, inventories, fixed assets and intangibles) and liabilities. Concepts of present value analysis. Prerequisite: ACCT 301 with a grade of "C" or better and passing score on the APAT. (UG)

ACCT 303 INTERMEDIATE ACCOUNTING III (3) Analysis of equity. Reporting of earnings per share. Accounting for investments, leases, post-employment benefits and income taxes. Prerequisite: ACCT 302 with a grade of "C" or better. (UG)

ACCT 321 ADVANCED ACCOUNTING I (3) Partnership accounting, multinational accounting, accounting for non-business organizations, and business combinations and consolidations. Prerequisite: ACCT 303 with a grade of "C" or better (UG)

ACCT 322 ADVANCED ACCOUNTING II (3) Interpretation and application of financial accounting principles. Prerequisite: ACCT 321 with a grade of "C" or better or consent of instructor. (UG)

ACCT 341 COST ACCOUNTING I (3) Components of manufacturing cost under the job order and processing cost system will be discussed. Elements of standard cost accounting, variance analysis and direct cost will be presented. Prerequisites: ACCT 202 with a grade of "C" or better. (UG)

ACCT 342 COST ACCOUNTING II (3) Preparation of budgets and budgetary controls, standard costs and their application will be discussed. Also covers management uses of accounting information through case analyses. Prerequisite: ACCT 341 with a grade of "C" or better. (UG)

ACCT 361 TAX ACCOUNTING I (3) This course covers federal income tax laws governing gross income, deductions, calculation of taxable income tax rates. Emphasis is placed on the effect of these laws on the income of individual tax payers. Prerequisite: ACCT 202 with a grade of "C" or better. (UG)

ACCT 362 TAX ACCOUNTING II (3) This course covers federal income tax laws dealing with partnerships, corporations, special tax areas and State of Maryland income tax laws. Prerequisite: ACCT 361 with a grade of "C" or better. (UG)

ACCT 401 AUDITING (3) Standards, controls, ethics and procedures employed by financial auditors. Prerequisites: ACCT 303, COMM 131 and Upper-level writing requirements with a grade of "C" or better and senior status. (UG)

ACCT 402 AUDITING II (3) Auditing procedures, working in small groups and developing oral and written communications skills for public accounting. Prerequisite: ACCT 401 with a grade of "C" or better. (UG)

ACCT 410 ACCOUNTING CONTROL SYSTEMS Analysis, design and implementation of accounting systems and their role in gathering & disseminating financial information. Emphasis will be placed on the use & integration of computers into the accounting system. Prerequisites: ACCT 303 and ACCT 341 with a grade of "C" or better, MAJORS ONLY. (UG)

ACCT 470 - 479 SPECIAL TOPICS IN ACCOUNTING Course content varies with each topic. In-depth study of contemporary business issues as they affect current accounting practice. Prerequisite: Consent of instructor. (UG)

ACCT 495 INDEPENDENT RESEARCH IN ACCOUNTING Directed research on specific problems in a functional area of accounting. May be re-elected for a maximum total of 6 credits. Prerequisites: Consent of instructor. (UG)

ACCT 497 ACCOUNTING INTERNSHIP (3) Students are required to work in assigned projects in actual accounting environments. Priority will be given to seniors. Open to highly qualified juniors. Graded under S/U procedure. May be re-elected for a maximum of 6 credits. Prerequisites: Consent of department chairperson; junior status. (UG)

Graduate Division

See TU Graduate School Catalog for course descriptions

ADULT EDUCATION (ADED)

Upper Division

ADED 485[585] ADULT EDUCATION (3) Introduction to the historical and philosophical evolution of adult education in the United States in relationship to current aims, types of programs, and issues. Prerequisite: Consent of instructor. (UG&G)

ADED 487[587] TEACHING THE ADULT LEARNER (3) Teaching learning activities at various levels of adult education. The needs, motivation, and abilities of the adult learner are stressed. Prerequisite: Consent of instructor. (UG&G)

ADED 489 PRINCIPLES OF READING INSTRUCTION FOR ADULTS (3) Causes of adult reading disabilities, evaluation relevant to reading disability, and the methods and materials employed in the remediation process. Prerequisite: Consent of instructor. (UG)

AFRICAN-AMERICAN STUDIES (BLST)

Upper Division

BLST 401 AFRO-AMERICAN PERSPECTIVES (3) Afro-American Perspectives is a college credit course, combining televised lessons, on-campus seminars, and related workbook assignments. This course focuses upon the experiences of Black people. The course utilizes a multi-discipline format and inter-disciplinary treatment. It is structured around several themes, inquiry into which will encourage scholarly development in an otherwise emotional arena. Prerequisite: Either African History or Black American History or Black American Literature or consent of instructor.

AMERICAN STUDIES (AMST)

Lower Division

AMST 201 INTRODUCTION TO AMERICAN STUDIES (3) Interdisciplinary course interpreting American culture through historical documents, literature, film, music, art, architecture, technology, and popular expression. Includes lectures, films, readings. Topic varies. GenEd II.B.1. (UG)

Upper Division

AMST 491 DIRECTED READINGS IN AMERICAN STUDIES (3) Independent research in American Studies on a topic selected by the student in consultation with the instructor. Prerequisite: Consent of American Studies coordinator. (UG)

AMST 497 PRACTICUM IN MATERIAL CULTURE (3) Students will work with members of the curatorial staff at a local museum to learn various museum techniques, examine the collections, and understand the educational and scholarly uses of material culture. A minimum of 80 hours is required. Prerequisite: Consent of American Studies coordinator. (UG)

ANTHROPOLOGY (ANTH)

Lower Division

ANTH 207 CULTURAL ANTHROPOLOGY (3) Introduction to social and cultural anthropology; cultural theory, social structure, human ecology, language and culture, technology, religion, art, and literature. Gen.Ed II.D. (UG)

ANTH 208 HUMAN EVOLUTION AND PREHISTORY (3) The study of humans: their biological and cultural development through time. Gen.Ed II.D. (UG)

ANTH 209 ANTHROPOLOGY OF AMERICAN CULTURE (3) This course applies the anthropological perspective and methodology to the study to the institutions of American culture and the distinctive ways of life encompassed by it. Students will use the perspective in a field work situation of their choice. Gen.Ed II.B.2. (UG)

ANTH 210 HONORS CULTURAL ANTHROPOLOGY (3) Introduction to social and cultural anthropology. Major social institutions such as politics, economics, religion and social structure will be viewed cross-culturally. Prerequisite: Admission to the Honors College Program. Gen.Ed II.D. (UG)

ANTH 211 HONORS ANTHROPOLOGY OF AMERICAN CULTURE (3) This course applies the anthropological perspective and methodology to the study of the institutions of American culture and the distinctive ways of life encompassed by it. Students will use the perspective in a field work situation of their choice. Prerequisite: Admission to the Honors College Program. Gen.Ed II.B.2. (UG)

Upper Division

ANTH 321 [521] SEX ROLES IN CROSS CULTURAL PERSPECTIVE (3) Materials from a variety of cultures will be used to illustrate and analyze the roles of women and men within the major institutional aspects -- the family, economics, politics and religion. Particular attention will be devoted to the similarities and differences in sex role patterns within and between the cultures. Prerequisite: SOCI 101 or ANTH 207. (UG & G)

- ANTH 346 [546] WEALTH, POWER & POLITICS IN CROSS-CULTURAL PERSPECTIVE (3)** Political systems and the distribution of power in egalitarian, ranked, and stratified societies will be examined. Prerequisite: SOCI 101 or ANTH 207. (UG & G)
- ANTH 351 DRUGS IN THE AMERICAS** This course will examine drug production and organization of supply in Latin America and the impact of the illegal economy on the peasant producers and the fabric of the economy, polity and society of those Latin American countries most directly involved. Most attention will be paid to cocaine, although heroin and marijuana will be discussed for comparative purposes. The course will not deal with drug consumption in the United States except incidentally. In the light of Latin American reality, the policy choices of the "War on Drugs" will be evaluated.
- ANTH 361 CONTROVERSIES IN ANTHROPOLOGY (3)** This course focuses on a number of significant controversial issues in cultural anthropology. Students will read divergent assessments on each issue under study. In addition, films will be shown which further illuminate the topics. The topics covered will be selected to cover a diverse range of areas including: sociobiology, cannibalism, incest, family organization, sexuality, warfare, competitive feasting, and spirit possession. Prerequisite: ANTH 207. (UG)
- ANTH 364 [564] RELIGION, MAGIC AND WITCHCRAFT (3)** The world view, beliefs and rituals of selected non-literate peoples considered with reference to religion as a universal category of human culture. Prerequisite: ANTH 207. (UG & G)
- ANTH 365 [565] NORTH AMERICAN INDIANS (3)** The traditional culture of native North Americans and their socio-cultural place in modern American society will be examined. Prerequisite: ANTH 207. (UG & G)
- ANTH 366 [566] SOUTH AMERICAN INDIANS (3)** Survey of the cultures of the native peoples of South America in Pre-Columbian times and the situation of contemporary tribal peoples of South America. Prerequisite: ANTH 207. (UG & G)
- ANTH 367 [567] PEOPLES OF THE MIDDLE EAST (3)** Survey of the Middle East as a cultural area with emphasis on culture change. Prerequisite: ANTH 207. (UG & G)
- ANTH 368 [568] COMPARATIVE INDUSTRIALIZATION (3)** Analyzes the industrial experiences of selected contemporary populations in Asia, Africa, and Latin America. Although the course focuses on the developing world, it will, for comparative purposes, include analyses of the United States, Japan, and other developed countries. Prerequisites: ANTH 207 or SOCI 101.
- ANTH 369 [569] TRADITION AND REVOLUTION IN LATIN AMERICAN SOCIETY (3)** An anthropological perspective will be brought to bear on contemporary Latin American culture and society. The Pre-Columbian heritage, the traditional synthesis and the struggle to modernize and develop will be examined. Prerequisites: SOCI 101, ANTH 207 or ANTH 208. (UG & G)
- ANTH 370-379 [530-539] TOPICS IN ANTHROPOLOGY (3)** An examination of current topics in Anthropology designed for non-majors as well as majors. The content of the course will depend upon mutual faculty and student interest. May be repeated when different topic is focus of course. Prerequisite: ANTH 207. (UG & G)
- ANTH 381 [581] ARCHAEOLOGICAL METHODS AND THEORY (3)** Methods of excavating and recording archaeological data. Investigation of problems of current research interest. Prerequisite: ANTH 207. (UG & G)
- ANTH 383 [583] NORTH AMERICAN ARCHAEOLOGY (3)** Regional survey of the prehistory of native North American cultures. Prerequisites: ANTH 207 or ANTH 208. (UG & G)
- ANTH 388 [588] PEASANT CULTURES (3)** The course will focus on rural agricultural population of modern states, their traditional lifeways and the changes being wrought by modernization. Prerequisites: SOCI 101 or ANTH 207. (UG & G)
- ANTH 401 [501] ANTHROPOLOGICAL THEORY (3)** Survey of the theoretical contributions made by American, British and Continental anthropologists. This course also satisfies the University's second writing course requirement. Prerequisites: ENGL 102, ANTH 207 plus nine hours of Anthropology. Gen.Ed I.D. (UG & G)
- ANTH 470-479 [570-579] SPECIAL TOPICS IN ANTHROPOLOGY (1-B)** An examination of current topics in Anthropology designed for junior and senior majors. The content of the course will depend upon mutual faculty and student interest. May be repeated when different topics is focus of course. Prerequisites: ANTH 207 and six additional hours of Anthropology. (UG & G)
- ANTH 491-492 [591-592] INTERNSHIP IN ANTHROPOLOGY I, II (3, 3)** Supervised experience in work setting which facilitates understanding of

rules and relationships relevant to anthropological inquiry and application of anthropological knowledge. While opportunities to do anthropologically oriented fieldwork in the community will usually be available, placement in agencies dedicated to anthropological inquiry may not always be possible. Students may elect to take one semester for 3 credits (491) or two semesters for 3 credits each (491-492), in one agency for both semesters or in a different agency each semester. No more than three credits may be earned in a semester save with consent of the chair which will be granted only when agency requirements and student needs make it appropriate. A fee is charged for each semester a student is involved in the internship. Prerequisite: Concentration in anthropology; junior standing and consent of internship coordinator. (UG & G)

ANTH 495 [595] INDEPENDENT RESEARCH (3) Supervised research and anthropological investigation leading to preparation of a research project or a supervised field experience. For senior students with a concentration in anthropology. May be repeated when different topic is focus of course. Prerequisites: At least 12 credits in ANTH and consent of department chair. (UG & G)

ANTH 498 READINGS IN ANTHROPOLOGY (Honors) (4) A survey of the relevant scholarly literature under the guidance of a staff member who will direct the student's research. Prerequisite: Consent of the Honors Coordinator. (UG)

ANTH 499 HONORS THESIS (4) Supervised research and anthropological investigation involving library and/or field experiences and culminating in a written report. Prerequisite: Consent of the Honors Coordinator. (UG)

ART

Lower Division

ART 100 USING VISUAL INFORMATION EFFECTIVELY Accessing, analyzing, and organizing visual information, including Internet research and Web Page design. Prerequisite: None. Approved Gen.Ed. I.B.

ART 102 DESIGN FOR NON-ART MAJORS (3) Creative process through two-dimensional art theory and concepts. Studio application, lectures, research problems. GenEd I.E. (UG)

ART 103 DESIGN I (3) Elements and principles of two-dimensional design: compositional problems involving various materials, tools, and techniques. (UG)

ART 104 DESIGN II (3) Elements and principles of three-dimensional design: form and space problems involving various tools, materials, and techniques. (UG)

ART 106 DRAWING FOR NON-ART MAJORS (3) Creative process through drawing. Studio application, lectures, demonstrations, and research problems. GenEd I.E. (UG)

ART 107 CERAMICS FOR NON-ART MAJORS (3) Creative process through studio application of ceramics. Lectures, demonstrations, and research problems. GenEd I.E. (UG)

ART 109 SCULPTURE FOR NON-ART MAJORS (3) Creative process through sculpture. Studio application, lectures, demonstrations, and research problems. GenEd I.E. (UG)

ART 110 AMERICAN TRADITIONS IN PAINTING (3) Diverse trends in American painting. Lecture, demonstration, studio experiences, museum visits, guest speakers. GenEd. II.B.1. (UG)

ART 111 DRAWING AND THE APPRECIATION OF DRAWING I (3) Problems of expressive draftsmanship in a variety of media. Drawing from the costumed and nude figures, still life and landscape. (UG)

ART 113 PAINTING FOR NON-ART MAJORS (3) Creative process through painting. Studio application, lectures, demonstrations, and research problems. GenEd I.E. (UG)

ART 115 AMERICAN TRADITIONS IN PAINTING Diverse trends in American Painting. Lecture, demonstration, studio experiences, museum visits, guest speakers. Prerequisite: None. Approved GenEd II.B.1.

ART 126 FABRIC DESIGN FOR NON-ART MAJORS (3) A study of design elements and principles using various textile techniques such as embroidery, applique, quilting, and dyeing. GenEd I.E. (UG)

ART 130 USING VISUAL INFORMATION EFFECTIVELY (3) Accessing, analyzing, and organizing visual information, including Internet research and Web Page design. GenEd I.B. (UG)

ART 205 THE HUMAN FIGURE (3) Exploration of the human figure using two and three-dimensional techniques: emphasis on the representational image. Prerequisites: ART 111. (UG)

ART 211 DRAWING II (3) Continued studio work in drawing: landscape, still life and figure. Prerequisite: ART 111. (UG)

ART 220 EXHIBIT DESIGN (3) Theory, concepts, planning, graphics, spatial aesthetics, and model construction for various professional exhibits. Management, design and installation of art exhibits. (UG)

- ART 229 PAINTING I (3)** Fundamentals of painting through lecture, demonstration and studio experience. Emphasis on color theory and applications: still life and landscape. Prerequisites: ART 103, ART 111. (UG)
- ART 231 CERAMICS I (3)** Creative investigation of ceramic materials. Studio work, lectures and discussion on ceramic design, techniques and materials. Prerequisites: ART 103, ART 104 or consent of instructor. (UG)
- ART 234 PHOTOGRAPHY I (3)** Technical and aesthetic elements of the photographic process. A manually adjustable camera is required. Prerequisites: ART 103. (UG)
- ART 236 PAINTING II (3)** Continued studio experience utilizing a variety of techniques and media: still life, landscape, and the figure. Prerequisites: ART 229. (UG)
- ART 241 SCULPTURE I (3)** Lecture and studio problems in the aesthetic and technical considerations of contemporary sculpture. (UG)

Upper Division

- ART 301 STAINED GLASS (3)** Directed studio problems in stained glass: cutting, foiling, soldering, brass frame and patina. Prerequisites: ART 102 or ART 103 or consent of instructor. (UG)
- ART 309 CERAMICS: THE POTTER'S WHEEL (3)** Studio experience in ceramics utilizing the potter's wheel. Assigned problems in wheel throwing with emphasis on utilitarian art. forms. Lectures, discussion, and demonstrations. Prerequisite: ART 231. (UG)
- ART 330 CERAMICS: HANDBUILDING (3)** Studio experience utilizing a variety of handbuilding techniques; problems in both utilitarian and sculptural considerations. (UG)
- ART 311 WOOD: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in the fabrication and lamination of wood. Prerequisite: ART 241. (UG)
- ART 313 ENAMELING I (3)** Directed studio problems in applying and firing vitreous enamels on metal. Basic techniques of stencil and inlay work are emphasized. Cloisonne, pique-a-jour, champleve will be introduced. Prerequisites: ART 103, ART 104. (UG)
- ART 360 COMPUTER ART I (3)** Introductory experience in producing art images on the computer. Includes lectures, demonstrations, gallery visits and lab work. Prerequisite: ART 229. (UG)
- ART 317 GRAPHIC DESIGN I (3)** Fundamentals of visual conceptualization, type and image integration, creative and innovative concept development. Not available to students who successfully completed ART 317, Design for Visual Communication. Prerequisite: ART 103. (UG)
- ART 318 JEWELRY (3)** Investigation into aesthetics, history, function and design of jewelry. Lecture and directed studio problems in forming, joining, and finishing of metallic and non-metallic materials. Prerequisites: ART 103 and ART 104 or consent of instructor. (UG)
- ART 319 [519] METALSMITHING (3)** Lecture, demonstration, and directed studio problems in raising, forging, joining, and finishing various metals with emphasis on design and creation of hollowware and flatware. The historic and aesthetic aspects of the media are considered. Prerequisite: ART 318. (UG & G)
- ART 320 FIBER CONSTRUCTION (3)** Non-loom fiber construction including macrame, twining, coiling, crochet, plaiting and basketry. Functional and non-functional forms and historical and aesthetic considerations included. Prerequisites: ART 103 or ART 104. (UG)
- ART 321 COMPUTER GRAPHICS I (3)** Utilizing MacIntosh systems, software, and utilities for Art. and Visual Communication. Prerequisite: ART 317, Design for Visual Communications I. (UG)
- ART 326 FABRIC DESIGN: DYEING (3)** Design problems executed in dye on fabric using the resist techniques of batik and tie-dye, in addition to stencilwork and handpainting. Prerequisites: ART 103 and ART 111. (UG)
- ART 327 FABRIC DESIGN: PRINTING (3)** Technical instruction in block and screen printing on fabric. Design problems include all-over repeat patterns. Prerequisite: ART 103. (UG)
- ART 328 WEAVING I (3)** Instruction in the basics of handweaving on the loom. Students will experiment with a variety of samplers then plan and execute a final project. Aesthetic and historical aspects of the media are considered. Prerequisites: ART 103, ART 104 or consent of instructor. (UG)
- ART 331 WATERCOLOR I (3)** Fundamentals explored through lecture, demonstration and studio experience: still life, landscape and the figure. Prerequisite: ART 236 or consent of the instructor. (UG)
- ART 333 PAPERMAKING (3)** Two and three dimensional creative problems in the making of paper. Prerequisites: ART 103 or ART 104. (UG)
- ART 334 [534] PHOTOGRAPHY II (3)** The aesthetic of black and white photography using advanced photographic processes and electronic imaging techniques. (May be taken concurrently with ART 321.) Prerequisites: ART 234, ART 321. (UG & G)
- ART 335 [535] PHOTOGRAPHY III (3)** The aesthetic of color photography through the use of advanced color photographic processes, alternative media processes, and electronic imaging techniques. Prerequisites: ART 234, 321. (UG & G)
- ART 336 PAINTING III (3)** Continued development of skills and technical expertise. Emphasis on independent problems and personal direction. Prerequisite: ART 236. (UG)
- ART 337 QUILTING I (3)** Contemporary design and color studies in piecing, applique, trapunto, and quilting by hand and machine. Prerequisites: ART 103 and ART 111. (UG)
- ART 338 BLACKSMITHING (3)** Studio problems in the use of tools and (UG) techniques of forming ferrous metals to produce works of art.. Prerequisites: ART 318 or consent of instructor. (UG)
- ART 339 METAL: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in metal fabrication and lost wax casting. Prerequisite: ART 241. (UG)
- ART 340 MODELING: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in clay modeling emphasizing the human figure and moldmaking. Prerequisite: ART 241. (UG)
- ART 342 CARVING: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in stone, wood, and other media. Prerequisite: ART 241. (UG)
- ART 347 SCREEN PROCESS I (3)** Multicolor projects include paper, stencil, drawing fluid, filler blockout, crayon resist, direct photo emulsion, using water-based inks. Prerequisites: ART 103, ART 111 or consent of instructor. (UG)
- ART 349 RELIEF PROCESS I (3)** Traditional and experimental techniques in printmaking: woodcut, collagraph, subtractive relief process, using oil and water-based materials. Prerequisites: ART 103, ART 111 or consent of instructor. (UG)
- ART 350 INTAGLIO PROCESS I (3)** Etching, drypoint, aquatint, lift ground, wood intaglio, and beginning color printing. Collagraph and carborundum printing techniques using non-toxic materials. Prerequisites: ART 103, ART 111 or consent of instructor. (UG)
- ART 351 WRITING ABOUT ART (3)** Expository writing about the visual arts, including critiques, articles, press releases, and other formats. Emphasis on effective writing with aesthetic insight. Prerequisites: ENGL 102 or 190; ART 221 or 222 or consent of instructor. GenEd I.D. (UG)
- ART 353 LITHOGRAPHIC PROCESS I (3)** Personal expression through printing from Litho stones and plates. Prerequisites: ART 103, ART 111 or consent of instructor. (UG)
- ART 360 COMPUTER ART I** Introductory experience in producing art images on the computer. Includes lectures, demonstrations, gallery visits, and lab work. Prerequisite: ART 229. (To be offered starting summer, 1997.)
- ART 370 SPECIAL TOPICS IN ART (3)** In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of six credits when a different area is covered. Prerequisite: 18 credits of Art courses. (UG)
- ART 371 PRODUCTION TECHNIQUES FOR THE GRAPHIC DESIGNER (3)** Experiences with the tools and methods involved in preparing camera ready art elements for print media and advertising. Prerequisites: ART 225 and one 300 level graphics (printing) course. (UG)
- ART 373 ILLUSTRATION I (3)** The application of creative drawing skills in a wide range of media (including pen and ink, watercolor and tempera) to various professional illustration assignments. Editorial, advertising, book, magazine, poster and institutional illustration assignments are covered from concept through presentation. Emphasis is placed on creative interpretation and use of media towards developing a professional portfolio of work. Prerequisite: ART 211. (UG)
- ART 400 [500] CERAMIC RAW MATERIALS (3)** Lecture and laboratory investigation of ceramic materials as they apply to glazes, clay slips and clay bodies. Tests and problems in ceramic raw materials. Prerequisite: ART 309, 310 or equivalent. (UG & G)
- ART 402 LIFE DRAWING AND ANATOMY I (3)** The study of anatomical structure of the human figure for art students. Drawing from the nude and draped model. Prerequisite: ART 211. (UG)
- ART 407 [508] CERAMICS: CLAY SCULPTURE (3)** Studio experience utilizing a variety of ceramic techniques. Assigned problems in sculptural directions for students experienced in handbuilding and the potter's wheel. Prerequisites: ART 310 or consent of instructor. (UG & G)

ART 409 CERAMICS: THE VESSEL (3) Studio experience utilizing a variety of ceramic techniques. Problems in utilization directions based on the vessel. Prerequisites: ART 310 or consent of instructor. (UG)

ART 412 LIFE DRAWING AND ANATOMY II (3) Continued study of anatomical structure of the human figure for Art students. Emphasis on musculature. Drawing from the nude and draped model. Prerequisite: ART 402. (UG)

ART 413 [513] ENAMELING II (3) Continued studio experience in enameling. Emphasis on advanced techniques of cloisonne, pliqueajour, independent work, and personal experience are encouraged. Taught concurrently with ART 313. Prerequisite: ART 373. (UG & G)

ART 414[514]ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice. (UG & G)

ART 415 [515] ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice. (UG & G)

ART 416 [516] ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice. (UG & G)

ART 417 GRAPHIC DESIGN II (3) Communication graphics synthesizing formal, conceptual and technical skills. Emphasis on creative concept development using type and image. Not available to students who successfully completed ART 417. Design for Visual Communication II. Prerequisite: ART 317 or consent of instructor. (UG)

ART 418 [518] JEWELRY II (3) Intermediate Design and studio experience. Directed problem in the techniques of metal construction, forging, stone setting and cold joinery. (UG & G)

ART 419 JEWELRY III (3) Advanced design and studio experience. Directed problems including surface treatments, die forming and casting of metals. Emphasis on independent work and personal expression. Prerequisite: ART 418. (UG)

ART 420 FIBER CONSTRUCTION II (3) Creative problems in two and three dimensional forms using non-loom techniques. Prerequisites: ART 320 or consent of instructor. (UG)

ART 421 COMPUTER GRAPHICS II (3) Directed studio experience using a variety of digital software art programs. Emphasizing artistic vision, professional pieces, and digital design. (UG)

ART 426 [626] FABRIC DESIGN: DYEING II (3) Directed and independent studio problems in fabric design: batik, tie-dye, stencil-work, and handpainting. Prerequisite: ART 326. (UG & G)

ART 427 [627] FABRIC DESIGN: PRINTING II (3) Continued problems in fabric design with screen printing and block printing on fabric. Prerequisite: ART 327. (UG & G)

ART 428 [528] WEAVING II (3) Continued studio experience in weaving. Further investigation into a variety of weaves on various warp threadings with experimentation into color, fiber, and woven forms. Prerequisite: ART 328. (UG & G)

ART 431 [531] WATERCOLOR II (3) Intermediate studio experience; landscape, still life, figure, and photographic imagery. Prerequisite: ART 330. (UG & G)

ART 435 PHOTOGRAPHY IV (3) Advanced research into the aesthetic of photographic imaging through the use of black and white, and color photo process, alternative media processes, and electronic imaging technology. May be taken concurrently with ART 421. Prerequisites: ART 334, 335 and 321. (UG & G)

ART 436 PAINTING IV (3) Continued studio experience for advanced students with emphasis on personal direction. Prerequisite: ART 329. (UG & G)

ART 437 QUILTING II (3) Continued studies in contemporary design using piecing, applique, trapunto, and quilting by hand and machine. Prerequisite: ART 337. (UG)

ART 438 METALSMITHING II (3) Continued studio experiences in silver and copper smithing: raising and forging non-ferrous metals. Prerequisite: ART 319 or consent of instructor. (UG)

ART 441 ADVANCED SCULPTURE I (3) Lecture and directed studio problems in advanced sculpture media and concepts. Prerequisite: any 300 level sculpture course. (UG)

ART 443 ADVANCED SCULPTURE II (3) Continued lecture and directed studio problems in advanced sculptural media and concepts. Prerequisites: ART 441 (Advanced Sculpture I) or ART 414-16 Advanced Studio. (UG)

ART 445 EXPERIMENTAL DIRECTIONS (3) Lecture and directed studio problems: recent sculptural trends, concepts, and technologies including installation, performance, environments, computers, etc. Prerequisite: ART 241 or consent of instructor.

ART 447 [547] SCREEN PROCESS II (3) Advanced color projects using direct photo emulsion emphasizing integration of hand drawn images with photo and computer generated images with non-toxic inks. Prerequisite: ART 347 or consent of instructor. (UG & G)

ART 449 [549] RELIEF PROCESS II (3) Traditional and experimental processes. Advanced color assignments using oil and water-based inks. Prerequisite: ART 349 or consent of instructor. (UG & G)

ART 450 [550] INTAGLIO PROCESS II (3) Multiple plate color and simultaneous color/intaglio/relief techniques and collagraph using experimental materials. Prerequisite: ART 350. (UG & G)

ART 453 [553] LITHOGRAPHIC PROCESS II (3) Personal expression, advanced printing including stone-plate and photo plate.. Multiple color printing. Prerequisite: ART 353. (UG & G)

ART 460 COMPUTER ART II Intermediate experience in producing art images on the computer. Includes lectures, demonstrations, gallery visits, and lab work. Prerequisite: ART 360.

ART 462 COMPUTER ART III Advanced experience in producing art images on the computer. Includes lectures, demonstrations, gallery visits, and lab work. Prerequisite: ART 460.

ART 468 INDUSTRIAL DESIGN Product and furniture design; idea development, design of computer models, construction of 3D materials models, and presentation. Prerequisite: ART 417 and ART 443.

ART 473 [573] ILLUSTRATION II (3) Continued studio experience in illustration. Developing personal approaches in various media. Emphasis on practicing professional assignments and portfolio preparation. Prerequisite: ART 373 or equivalent. (UG & G)

ART 474 ILLUSTRATION III (3) Advanced studio experience utilizing a variety of contemporary and experimental media, emphasizing creative exploration and building a professional portfolio. Prerequisites: ART 373 and 473. (UG)

ART 490 INTERNSHIP IN ART (3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required. Prerequisite: Consent of instructor. (UG)

ART 491 INTERNSHIP IN ART (3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required.. Prerequisite: Consent of instructor. (UG)

ART 492 INTERNSHIP IN ART (3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required. Prerequisite: Consent of instructor. (UG)

ART 494 [594] TRAVEL AND STUDY ABROAD (3-6) Countries and topics to be selected by the department and instructors sponsoring the program. For information, contact the Art department early in the semester preceding the semester of travel study. Prerequisite: Consent of instructor and interview. (UG & G)

ART 497 SENIOR PROJECT (3) Directed studio. Critiques culminating in a presentation /portfolio. Prerequisite: Consent of instructor. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

ART HISTORY (ARTH)

Lower Division

ARTH 105 ART IN THE CULTURE (3) Forms of art in relation to world culture. Not open to those who successfully completed ART 105. GenEd II.D.

ARTH 107 ART: THEMES, DREAMS, AND VISIONS (3) Artists' ideas, subjects, and motifs across time and place. GenEd II.D.

ARTH 108 INTRODUCTION TO NON-WESTERN ART (3) Non-Western arts of the Americas, Africa, Oceania, Islam, Indian, China, Japan. Prerequisite: None. Approved GenEd. II.D.

ARTH 109 MYTHS AND STORIES IN AMERICAN ART (3) Myths, stories, folk tales, and narratives depicted through American Art. GenEd II.B.1. (UG)

ARTH 113 INTRODUCTION TO NON-WESTERN ART (3) Non-Western arts of the Americas, Africa, Oceania, Islam, India, China, Japan. GenEd. II.D. (UG)

ARTH 113 MYTHS AND STORIES IN AMERICAN ART Myths, stories, folk tales, and narratives depicted through American Art. Prerequisite: None. Approved GenEd. II.B.1.

ARTH 207 HONORS: SEMINAR IN ART HISTORY (3) Specific historical period/movement or artist with presentations, critiques.

directed readings, and research paper. GenEd II.C.1.

ARTH 208 HONORS: SEMINAR IN NON-WESTERN ART HISTORY (3) Specific historical, period/movement or artist within the non-western tradition with presentations, critiques, directed readings, and research paper. Prerequisite: None. GenEd II.D. (UG)

ARTH 221 SURVEY OF WESTERN ART I (3) Prehistoric to Medieval art. Not open to those who successfully completed ART 221. GenEd II.C.1.

ARTH 222 SURVEY OF WESTERN ART II (3) Renaissance to Modern art. Prerequisite: ARTH 221. GenEd II.C.1. (Not open to those who successfully completed ART 222.)

Upper Division

ARTH 301 ORIGINS OF WESTERN ART (3) Historical survey concentrating in Paleolithic, Egyptian, Mesopotamian and Aegean art and architecture. Prerequisite: ARTH 221.

ARTH 303 GREEK ART AND ARCHITECTURE (3) History of the art and architecture of Ancient Greece. Prerequisite: ARTH 221. Not open to those who successfully completed ART 471.

ARTH 305 ROMAN ART AND ARCHITECTURE (3) History of the art and architecture of the Roman Empire and the Early Christian World. Prerequisite: ARTH 221. Not open to those who successfully completed ART 472.

ARTH 307 MEDIEVAL ART (3) History of the art and architecture of the Romanesque and Gothic periods. Prerequisite: ARTH 221. Not open to those who successfully completed ART 444.

ARTH 309 ITALIAN RENAISSANCE ART AND ARCHITECTURE (3) History of the architecture, painting and sculpture of the Italian Renaissance. Prerequisite: ART 222. Not open to those who successfully completed ART 445.

ARTH 311 NORTHERN RENAISSANCE ART AND ARCHITECTURE (3) History of the architecture, painting, and sculpture of France, Germany, and Flanders. Prerequisite: ARTH 222.

ARTH 313 BAROQUE ART AND ARCHITECTURE (3) History of the art and architecture of the Seventeenth Century in Italy, France, Spain, Holland, and Flanders. Prerequisite: ARTH 222. Not open to those who successfully completed ART 479.

ARTH 323 MODERN ART I (3) History of the painting and sculpture of Europe from the Rococo to Post-Impressionism. Prerequisite: ARTH 222. Not open to those who successfully completed ART 482.

ARTH 324 MODERN ART II (3) History of 20th-century art concentrating on painting and sculpture from Europe and the United States. Prerequisite: ARTH 222. Not open to those who successfully completed ART 423 or 424.

ARTH 325 HISTORY OF MODERN ARCHITECTURE (3) History of European and American architecture of the 20th century. Prerequisite: ARTH 221 and 222. Not open to those who successfully completed ART 425.

ARTH 331 THE ART OF CHINA (3) History of the painting, sculpture, craft, and architecture of China and peripheral regions. Prerequisites: ARTH 105, 221, or 222 or consent of instructor. Not open to those who successfully completed ART 302.

ARTH 333 THE ART OF JAPAN (3) History of the painting, sculpture, and architecture of Japan. Prerequisites: ARTH 105, 221, or 222 or consent of the instructor. Not open to those who successfully completed ART 303.

ARTH 335 AFRICAN-AMERICAN ART (3) African-American art and artists in the context of American Art. Prerequisites: ART 105, 222, 313 or consent of instructor. Not open to those who successfully completed ART 304.

ARTH 337 AMERICAN ART (3) History of American architecture, art and crafts from the colonial period to the present. Prerequisites: ARTH 105, 222 or consent of instructor. Not open to those who successfully completed ART 322.

ARTH 341 WOMEN IN ART (3) Images of women and images made by women in western and non-western cultures from prehistoric to the present. Prerequisites: ARTH 105 or ARTH 222 or consent of instructor. Not open to those who successfully completed ART 316.

ARTH 351 HISTORY OF PHOTOGRAPHY (3) World photography from the early 19th century to the present. Prerequisites: ARTH 105 or 222.

ARTH 391 RESEARCH METHODS IN ART HISTORY (3) Bibliographic research and procedures. History of scholars and writing in the field. Prerequisites: ARTH 221 and 222 and two upper-division art history courses. Not open to those who successfully completed ART 391.

ARTH 485 [585] SEMINAR IN ART HISTORY (3) Intensive analysis of a single artist, a defined historical period of a stylistic development in art. Directed reading, discussions and museum tours. Variable content. May be repeated under a different topic for a maximum of nine (9) credits,

including attempts of ART 485. Prerequisite: ARTH 222, and one upper-division art history or consent of instructor.

ARTH 495,96,97 INDEPENDENT STUDY IN ART HISTORY Advanced research and examination of a topic in art history. Prerequisites: ARTH 221, 222, and at least one 300 level art history.

ARTH 499 SENIOR HONORS THESIS (4) Thesis under the direction of an advisor. Prerequisite: Admittance to the Art Department Honors Program.

ART EDUCATION (ARED)

Upper Division

ARED 371 ART AND THE CHILD (3) Major considerations of art education appropriate to the work of the elementary teacher; experiences with art materials. (UG)

ARED 373 ART FOR EARLY CHILDHOOD EDUCATION (2) Participation will include lectures, demonstrations, and workshops based on special needs as students experience art in nursery schools, day care centers, kindergartens and the primary grades. Prerequisites: Concurrent registration for Block I, ECED 341. (UG)

ARED 381 MEDIA AND TECHNIQUES FOR ART TEACHERS: ELEMENTARY (3) Introduction to Art Education. Exploration of media and processes; planning and instructional strategies. Taken concurrently with ARED 375. (UG)

ARED 383 MEDIA AND TECHNIQUES FOR ART TEACHERS: SECONDARY (3) Introduction to studio activities, planning and instructional strategies. Taken concurrently with ARED 374. (UG)

ARED 465 ADVANCED ART EDUCATION (3) Art education problems at all levels; materials and skills in relation to classroom needs. Prerequisite: ARED 371 or equivalent. (UG & G)

ARED 467 K-12 FIELD EXPERIENCES IN ART EDUCATION: OBSERVATION (2) Analysis of instruction in selected K-12 teaching situations, taken concurrently with ARED 468, ARED 475, and ARED 479. (UG)

ARED 468 K-12 FIELD EXPERIENCES IN ART EDUCATION: TEACHING (2) Preparation and teaching of units in elementary and secondary schools. Taken concurrently with ARED 467, ARED 475, and ARED 479. (UG)

ARED 475 METHODS OF TEACHING ART: ELEMENTARY (3) Theoretical and practical aspects of teaching art: selection, design, and implementation. Taken concurrently with ARED 467, ARED 468, and ARED 479. (UG)

ARED 479 METHODS OF TEACHING ART: SECONDARY (3) Theoretical, practical, philosophical, and historical aspects of art education: content and methods of planning and instruction. Taken concurrently with ARED 467, ARED 468, and ARED 475. (UG)

ARED 481 STUDENT TEACHING IN ELEMENTARY EDUCATION--ART (6) Practical experiences in observation, participation, and student teaching in a public elementary school under the guidance of a cooperating teacher and a university supervisor. Prerequisites: All art foundation requirements, all ARED courses, PSYC 101, PSYC 201 and SCED 319 (or SCED 341). Concurrent with ARED 487 and ARED 488. (UG)

ARED 483 STUDENT TEACHING IN SECONDARY EDUCATION--ART (6) Practical experiences in observation, participation, and student teaching in public secondary school under the guidance of a cooperating teacher and a university supervisor. Prerequisites: All art foundation requirements, all ARED courses, PSYC 101, PSYC 201, and SCED 319 (or SCED 341). Concurrent with ARED 486 and ARED 488. (UG)

ARED 485 PRO-SEMINAR IN THE TEACHING OF ART (3) A professional seminar for Art SEducation majors. Discussion of problems in the current teaching experience. Prerequisite: Permission of Art Education faculty. Concurrent with student teaching. (UG)

BIOLOGY (BIOL)

NOTE: Either BIOL 110 (Contemporary General Biology), BIOL 112 (Honors Contemporary General Biology), or BIOL 201 (Biology I) is required as prerequisite for all other biology courses except BIOL 100, BIOL 103, BIOL 105.

Lower Division

BIOL 100 HUMANISTIC BOTANY (3) Selected botanical topics of interest to the non-science major. Topics will include poisonous plants, medicinal plants, plant hallucinogens, tree-ring dating, botanical genetics, bonsai and commercial uses of major plant groups. No credit will be given to those who have completed BIOL 205. (UG)

BIOL 103 HUMAN BIOLOGY (3) Basic principles of human body processes in normal and certain abnormal conditions for non-science majors. The emphasis will be on physiology with sufficient anatomy for its understanding. No credit will be given to those who have completed BIOL 171, BIOL 172, BIOL 213, BIOL 214 or BIOL 311. (UG)

BIOL 105 ENVIRONMENTAL BIOLOGY (3) Analysis of problems caused by use of natural world. Emphasizing biological aspects of this interdisciplinary subject. (UG)

BIOL 110 CONTEMPORARY GENERAL BIOLOGY (4) Biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution and ecology. Average of two laboratory hours per week. No credit for those who have completed BIOL 201. GenEd II.A.1. (UG)

BIOL 112 HONORS CONTEMPORARY GENERAL BIOLOGY (4) Biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution, and ecology. Average of two laboratory hours per week. Not open to those who have completed BIOL 201. Special permit by Honors College Committee only. This course will be equated with BIOL 110 for use as a prerequisite or in entering the major. (UG)

BIOL 115 BIOLOGICAL SCIENCE I (4) Integrates concepts of modern molecular genetics, evolution, and natural selection. Not for Biology major credit. GenEd II.A.1. (UG)

BIOL 201 BIOLOGY I: CELLULAR BIOLOGY AND GENETICS (4) An introduction to biology including biologically important molecules, cell and tissue structure, respiration, photosynthesis, mitosis, meiosis and genetics. Average of three laboratory hours per week. Prerequisite: CHEM 101 (may be taken concurrently) or one year high school chemistry. Credit not granted for both BIOL 201 and BIOL 110. GenEd II.A.1. (UG)

BIOL 202 BIOLOGY II: ORGANISMIC AND POPULATION BIOLOGY (4) Mechanisms which perpetuate life and the interactions and relationships of animals, plants and their environment. Emphasis is placed on the fundamental principles of homeostasis and integration, animal behavior, population and population genetics, communities, evolution, and ecosystems. Average of three laboratory hours per week. Prerequisites: BIOL 201 or BIOL 110 with a grade of "B" or better. (UG)

BIOL 205 GENERAL BOTANY (4) Plant structure, development, reproduction and diversity of life forms by interrelating hormones, physiological processes and environmental relationships with respect to the whole plant. Emphasis on flowering plants. Average of three laboratory or discussion hours per week. Prerequisites: BIOL 201 or BIOL 110. (UG)

BIOL 207 GENERAL ZOOLOGY (4) Major animal phyla. A comparative approach to the structure, function, development and ecology of the Animal Kingdom. Average of three laboratory hours per week. Prerequisites: BIOL 202 or BIOL 110. (UG)

BIOL 213 HUMAN ANATOMY AND PHYSIOLOGY I (4) Cell biology, histology, skeletal, muscular, and nervous systems. Average of three laboratory hours per week. *To receive Biology major credit, Biology 214 must also be completed.* Students who have completed BIOL 109 or 174 may not take this course without departmental approval. Prerequisites: BIOL 201 or BIOL 110. (UG)

BIOL 214 HUMAN ANATOMY AND PHYSIOLOGY II (4) Cardiovascular, respiratory, digestive, excretory, endocrine and reproductive systems. Average of three laboratory hours per week. *To receive Biology major credit, Biology 213 must be completed.* Students who completed BIOL 109 or 174 may not take this course without departmental approval. Prerequisite: BIOL 213. (UG)

BIOL 215 FOUNDATIONS OF MICROBIOLOGY (40) Pathogenesis of bacteria and viruses, their interactions with the human body, and methods of treatment and prevention. Three hours of laboratory per week. Recommended for allied health science majors. Prerequisite: BIOL 110. (UG)

Upper Division

BIOL 301 FIELD NATURAL SCIENCE (4) Physical and biological components of various environments and their interrelationships with each other and man. Emphasis on field observation. Average of three laboratory hours per week. Not for credit toward biology major, minor, or M.S. degree in Biology. Prerequisites: BIOL 110 or BIOL 201.

BIOL 302 [512] INSTRUMENTAL METHODS FOR BIOLOGISTS Principles of electronics, data management, analytical techniques, radioisotope applications, and physiological monitoring methods.

Average of four laboratory hours per week. Prerequisites: BIOL 2065 or 207; PHYS 203 or 212 or 242; CHEM 102 and 210 or 211 or consent of instructor. (UG & G)

BIOL 303 [509] LIFE SCIENCES (3) Living organisms in the environment, emphasizing modes of scientific inquiry and the utilization of living organisms in the classroom. Prerequisite: BIOL 110. Not for credit toward biology major, minor or M.S. degree in Biology. (UG & G)

BIOL 305 [505] ELECTRON MICROSCOPY (4) Theory, preparation, and application of the electron microscope, including light microscopy. Average of three laboratory hours per week. Prerequisites: 12 hours of biology, PHYS 211, PHYS 212 recommended, and consent of instructor. (UG & G)

BIOL 307 [507] INTRODUCTION TO PALEONTOLOGY (4) Examination of major forms of life with the emphasis on appearances, diversification, and extinctions during the different geologic periods. Prerequisite: Minimum 10 credits in Biology. (UG & G)

BIOL 309 PRINCIPLES OF GENETICS Problem-based genetics: Mendelian genetics, genetic linkage and mapping, nucleic acid structure, replication and function, protein synthesis and the genetic code, gene expression and regulation, mutation, repair and recombination, recombinant DNA technology, and population genetics. Not available for credit for those who have taken BIOL 401. Prerequisites: BIOL 202, CHEM 330 or 332 (may be taken concurrently).

BIOL 310 [510] ENVIRONMENTAL CONSERVATION (4) Conservation practices and problems. Soil, water, forest, and wildlife resources with emphasis on interrelationships. Specialists in various phases of local, state, and federal conservation work conduct or assist in numerous field trips. Average of three laboratory hours per week. Prerequisites: BIOL 110 or 201 and 10 hours of Biology or a combination of 10 hours from biology, geography and physical sciences. (UG & G)

BIOL 311 FUNCTIONAL ANATOMY OF HUMANS (4) Organ systems of the human with emphasis on physiological processes including integration of these processes from the cellular to organismal level. Average of three laboratory hours per week. No credit for those who have completed BIOL 109, BIOL 174 or BIOL 213-214. Prerequisites: BIOL 207, CHEM 102. (UG)

BIOL 315 [515] MEDICAL MICROBIOLOGY (4) Pathogenesis of bacterial, viral, rickettsial and fungal diseases with emphasis on medically important bacteria and microbiological techniques. Recommended for students pursuing a career in medical sciences. Prerequisites: BIOL 110 or BIOL 201; CHEM 102 or CHEM 106 (may be taken concurrently). Either this course or BIOL 318 but not both may count toward Biology major or M.S. degree in Biology. (UG & G)

BIOL 317 [517] MICRO TECHNIQUE (4) Techniques used in preparation of plant and animal tissues for histological examination. Average of three laboratory hours per week. Prerequisite: BIOL 110 or BIOL 201. (CHEM 102 may be taken concurrently.) (UG & G)

BIOL 318 [518] MICROBIOLOGY (4) Biology of microorganisms with emphasis on bacteria. Microbial morphology, physiology and genetics and the role of microorganisms in natural processes and disease. Laboratory includes methods of observing, isolating and identifying bacteria. Average of three laboratory hours per week. Either this course or BIOL 315 but not both may count toward Biology major or M.S. degree in Biology. Prerequisites: CHEM 330 or CHEM 331 (may be taken concurrently). (UG & G)

BIOL 331 [531] PLANT MORPHOLOGY (4) A survey of the plant kingdom with emphasis on evolutionary relationships, morphology, and life histories as affected by environmental conditions. A Saturday field trip may be required. Average of three laboratory hours per week. Prerequisite: BIOL 205. (UG & G)

BIOL 335 ECONOMIC BOTANY (3) Plants and plant products which provide man with various luxuries and necessities. Emphasis will be on higher plants commercially important in North America. Prerequisite: BIOL 205. (UG)

BIOL 341 [543] FRESH WATER ALGAE (4) Systematics, structure, ecology, physiology, and life histories of fresh water algae. Laboratory will include methods of collection, culture, and experimental study of selected species. Prerequisites: BIOL 205, BIOL 331 recommended. (UG & G)

BIOL 345 [545] MYCOLOGY (4) Morphology, classification, life histories, and economic applications of the fungi. Average of three laboratory hours per week. Prerequisite: BIOL 205. (UG & G)

BIOL 347 MARINE BIOLOGY (3) Major features of the marine environment emphasizing biological aspects and specific adaptations of marine organisms. Prerequisites: BIOL 205, BIOL 207. (UG)

BIOL 349 [549] MARINE BOTANY (4) The ecology, physiology and identification of marine plants emphasizing the Chesapeake Bay and

- coastal areas of Maryland. Prerequisites: BIOL 347, BIOL 331 strongly recommended. (UG & G)
- BIOL 351 [551] FIELD AND SYSTEMATIC VERTEBRATE ZOOLOGY (4)** Evolution, distribution, and definitive features of each class are studied comparatively. Extensive field and laboratory work deals with morphological, taxonomic, ecological, and behavioral features of selected vertebrate groups and species. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 353 [553] INVERTEBRATE ZOOLOGY (4)** Aquatic and terrestrial species of phyla from the Protozoa through the Echinodermata with special emphasis on local forms. Economic, ecological, and taxonomic considerations. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 355 ANIMAL PARASITOLOGY (4)** Major groups of animal parasites and their vectors. Emphasis will be placed on the more important human parasites. Prerequisites: BIOL 207, or BIOL 214, or BIOL 311. (UG)
- BIOL 360 [560] HISTOLOGY (4)** Tissues of the vertebrate body. Prerequisites: BIOL 311 or BIOL 214 (UG & G)
- BIOL 367 [568] ENDOCRINOLOGY (3)** Endocrine mechanisms regulating homeostasis and functional integrity of animals with emphasis on vertebrates. Prerequisites: BIOL 214 or BIOL 311, CHEM 102. (UG & G)
- BIOL 371 [571] ANIMAL BEHAVIOR (4)** Ethological approach to the comparative study of animal behavior. Major emphases are on the adaptive function of behavior and classification of behavioral mechanisms. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 381 BIOLOGICAL LITERATURE (3)** Familiarization with the literature of biology through the preparation of papers requiring a knowledge of techniques for exploring the literature. Three one-hour lectures per week. Not for major or minor credit or M.S. degree in Biology. Fulfills the advanced writing requirements. Prerequisites: ENGL 102 or 190, at least ten hours of Biology. GenEd I.D. (UG)
- BIOL 389 CURRENT DEVELOPMENTS IN BIOLOGY (3)** Current directions of research in a major area of the biological sciences. Sufficient background will be given for the appreciation of the significance of these developments. May not be repeated for major credits. Prerequisites: BIOL 205, 207, and consent of instructor. (UG)
- BIOL 398 STUDENT TEACHING IN SECONDARY EDUCATION – BIOLOGY (12)** (UG)
- BIOL 401 [501] GENETICS (4)** Introduction to genetics including Mendelian genetics, linkage and mapping, nucleic acid structure, replication and function, protein synthesis and the genetic code, mutation, gene regulation in bacteria and viruses, and population genetics. Laboratory includes work with *Drosophila*, fungi, bacteria and viruses. Average of three laboratory hours per week. Prerequisites: BIOL 110 or BIOL 201, CHEM 330 or CHEM 331 (may be taken concurrently). (UG & G)
- BIOL 402 [502] GENERAL ECOLOGY (4)** Interrelationship among animals, plants, and their natural environments, emphasizing the specific biomes available for study in Maryland. Individual projects will be required. Average of three laboratory hours per week. Prerequisites: BIOL 110 or 201; and either BIOL 202 or 205 or 207. (UG & G)
- BIOL 403 [503] ADVANCED GENETICS (3)** Emphasis on the molecular basis of gene action. Discussion of current work and methods related to the problem of gene structure, function, and mutation including the translation and regulation of genetic information. Prerequisite: BIOL 401 or its equivalent. (UG & G)
- BIOL 404 [504] ECOLOGICAL TECHNIQUES (3)** Lectures and readings on investigative techniques employed by ecologists in the various specialty fields. An individual investigation, laboratory or field, using appropriate equipment, is required. Prerequisite: BIOL 402 or its equivalent. (UG & G)
- BIOL 406 [506] LIMNOLOGY (4)** Physical, chemical, and biological factors that affect fresh-water organisms, and some of the standard methods used to analyze these factors. Average of three laboratory hours per week. Prerequisites: BIOL 205, BIOL 207, BIOL 402 is recommended, CHEM 102, PHYS 212. (UG & G)
- BIOL 408 [508] CELL BIOLOGY (4)** The molecular and morphological organization of the cell in relationship to cellular activities with emphasis on eukaryotic cells. Average of three laboratory or discussion hours per week. Prerequisites: BIOL 207, or BIOL 214, or BIOL 311; CHEM 330 or CHEM 331. (UG & G)
- BIOL 411 [511] WILDLIFE BIOLOGY (4)** Important wildlife species with emphasis on aspects of research and management. Specific techniques and problems are studied in the field. Average of three hours per week in laboratory and field work. Prerequisite: BIOL 207. (UG & G)
- BIOL 413 [513] EVOLUTION (3)** Concepts of biological evolution, the history of the development of these concepts, and current topics in evolutionary biology. Prerequisites: BIOL 202 and either BIOL 205 or 207. (UG & G)
- BIOL 421 [521] IMMUNOLOGY (3)** Fundamental principles of immunology with emphasis on the nature of antibodies and antigens, blood groups, antibody-antigen reactions, hypersensitivity, autoimmunization, tumor immunology, artificial grafting and the preparation of vaccines. Prerequisites: BIOL 315 or 318. (UG & G)
- BIOL 422 [522] ADVANCED IMMUNOLOGY (2)** An advanced study of current topics in immunology including humoral and cell-mediated immunity, histocompatibility, hypersensitivity, autoimmunity, tumor immunology, immunologic disorders and the use of mono-clonal antibodies as a research tool. Prerequisites: 421 or its equivalent or consent of instructor. (UG & G)
- BIOL 425 [525] DISSECTION OF THE UPPER EXTREMITY (2)** Gross anatomical dissection of the human upper extremity including the muscles, nerves and blood vessels which supply the appendage. Special emphasis will be placed on development of techniques which assure careful and accurate dissection. Will be offered only in the minimester. Prerequisites: BIOL 213 or BIOL 311 and consent of instructor. (UG & G)
- BIOL 427 NEUROMUSCULAR MECHANISMS OF THE UPPER BODY (2)** Gross anatomy of the human upper extremity and cranial nerves. Upper extremity emphasis includes muscle action, innervation, and major spinal cord pathways. Olfactory, optic, auditory, and vestibular functions of cranial nerves are stressed. One lecture and two laboratory periods per week. Prerequisites: BIOL 110; BIOL 311 or BIOL 213. (UG)
- BIOL 428 [528] VIROLOGY (3)** Pathogenesis, morphology, and life cycles of bacterial, animal and plant viruses. Emphasis will be on animal viruses causing disease in humans. Prerequisites: BIOL 315 or 318. (UG & G)
- BIOL 431 [530] HORTICULTURE (4)** Plant culture and application to developing desirable plantings on home grounds or in public places with examples of appropriate types of plants for specific situations. Average of three laboratory hours per week. Prerequisites: BIOL 205. (UG & G)
- BIOL 432 [532] VASCULAR PLANT TAXONOMY (4)** A study of the history and principles of vascular plant systematics with laboratory time devoted to collection and identification of plants in the local flora. An average of three laboratory hours per week. Prerequisites: BIOL 205, BIOL 331 or consent of instructor. (UG & G)
- BIOL 435 [535] PLANT ECOLOGY (4)** Environmental factors and processes which control plant distribution, plant communities, and vegetational biomes of North America. An average of 3 laboratory hours per week with 2 required 3-day weekend field trips and a Saturday field trip emphasizing examples from Maryland and the Mid-Atlantic States. Prerequisites: BIOL 202 and 205. (UG & G)
- BIOL 436 [536] PLANT PHYSIOLOGY (4)** Life functions of plants as related to structure at all levels: cells, organs, and the complete organism. Consideration of the interaction of environmental and genetic factors on plant metabolism. Average of three laboratory hours per week. Prerequisites: BIOL 205 and CHEM 102, CHEM 330 recommended. (UG & G)
- BIOL 439 [539] PLANT ANATOMY (4)** Origin and development of organs and tissue systems in vascular plants. Average of three laboratory hours per week. Prerequisite: BIOL 205. (UG & G)
- BIOL 441 [541] PLANT PATHOLOGY (4)** Plant diseases, their symptoms, causal agents, etiology, epidemiology, prevention, and control. Average of three laboratory hours per week. Prerequisite: BIOL 295. (UG & G)
- BIOL 456 [556] ORNITHOLOGY (4)** Systematics, distribution, physiology, behavior and ecology of birds. Emphasis is on bird identification and techniques of studying birds in the field. Several early morning field trips are required. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 458 [558] MAMMALOLOGY (4)** Evolution, comparative morphology, systematics, and distribution of mammals. Representative life histories are considered. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 461 [561] ENTOMOLOGY (4)** Laboratory and field course in insects. Identification and recognition of the more common families and orders, and a study of their structure, behavior, ecology, economic importance, and control. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)
- BIOL 463 [563] ANIMAL EMBRYOLOGY (4)** Developmental anatomy and the underlying principles involved in development. This last area will be approached from an experimental base. Average of three laboratory hours per week. Prerequisites: BIOL 207, or BIOL 214, or BIOL 311. (UG & G)

BIOL 465 [565] MAMMALIAN PHYSIOLOGY (4) Organ systems of mammals with special emphasis on the human. Average of three laboratory hours per week. Prerequisites: BIOL 213, BIOL 214, or BIOL 311; and CHEM 102. (UG & G)

BIOL 467 [567] HERPETOLOGY (4) Systematic survey of the modern reptiles and amphibians. Emphasis is placed on the evolution of morphological and behavioral traits which have enabled the reptiles and amphibians to successfully exploit their individual habitats. Laboratory includes systematic classification, student seminars and field work. Average of three laboratory hours per week. Prerequisite: BIOL 207. (UG & G)

BIOL 469 [569] COMPARATIVE ANIMAL PHYSIOLOGY (4) Functions, interactions, and regulation of organ systems in animals and their roles in sensory perception and integration, movement, oxygen utilization, energy procurement, temperature regulation, and water metabolism. Prerequisites: BIOL 207, CHEM 102. (UG & G)

BIOL 481 [581] DIRECTED READING IN BIOLOGY (1-3) Independent reading in an area selected by the student in consultation with the instructor. May not be applied toward the Biology major, Biology minor, or M.S. degree in Biology. May be repeated for a maximum of 3 credits. Prerequisite: A minimum of ten hours in Biology. (UG & G)

BIOL 485 [585] SEMINAR IN MICROBIOLOGY AND CELL BIOLOGY (1) Current research articles in Cell Biology and Microbiology are reviewed. May be taken for a maximum of 2 credits. Prerequisites: Twelve credit hours in Biology, including BIOL 315, 318, 401, or 408. (UG & G)

BIOL 486 BIOLOGY MAJORS SEMINAR (1) Specific topic examined at the molecular, cellular, organismic and ecological levels of organization. Students will be required to present an oral and written report on an aspect of the topic. Prerequisites: Ten hours in Biology or consent of instructor. BIOL 202, 205, and 207. (UG)

BIOL 491 INDEPENDENT RESEARCH IN BIOLOGY (2-3) Independent investigation of a problem under the supervision of a staff member culminating in a written presentation. Prerequisite: Prior written consent of instructor who will direct research; 15 hours in biology recommended. May not be used toward Biology minor or M.S. degree in Biology. May be repeated for a maximum of 5 credits. (UG)

BIOL 493 INTERNSHIP IN BIOLOGY (3) Practical application of biology in businesses, industries, public and private agencies. Not for major or minor credit. Prerequisites: 2.75 QPA, junior or senior standing, a minimum of 11 credits in Biology completed at Towson University; Major in Biology and consent of the Biology internship coordinator. Special permit and Co-op fee required. May be repeated once for credit. Grading on a S/U basis. (UG)

BIOL 494 [594] TRAVEL STUDY (1-3) A detailed investigation of field oriented problems in biology away from the Towson University campus. Locations and topics to be selected by the department and instructors sponsoring the program. May be repeated for a maximum of 3 credits. Prerequisite: BIOL 110 and consent of instructor. (UG & G)

BIOL 495 COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Not for credit toward the biology major, minor, or M.S. degree in Biology. Prerequisite: BIOL 110. May be repeated once for research related to a different course successfully completed by the student. (UG)

BIOL 498 HONORS RESEARCH IN BIOLOGY (2) Individual research of an extensive nature under the direction of a staff member, culminating in an honors thesis. Credit for BIOL 498 not awarded until BIOL 499 is successfully completed. Prerequisites: Open only to advanced honors candidates and by consent of instructor. May not be used toward M.S. degree in Biology. (UG)

BIOL 499 SENIOR THESIS IN BIOLOGY (2) Writing of an honors thesis based on individual research done under the direction of a staff member. Prerequisites: Open only to advanced honors candidates and by consent of instructor. May not be used toward M.S. degree in Biology. (UG)

Graduate Division

See TU Graduate School Catalog for course descriptions.

CHEMISTRY (CHEM)

Lower Division

CHEM 100 CHEMISTRY FOR NON-SCIENTISTS (3) Current and future technological and scientific developments, including such topics as nuclear power, environment, pollution and body chemistry. Three lecture-demonstration hours. GenEd II.A.1. (UG)

CHEM 101 GENERAL CHEMISTRY I (4) Atomic and molecular structure; theories of bonding, stoichiometry; chemical reactions; states of matter; solutions. Laboratory work involves experiments dealing with the determination of physical properties of matter, molecular weights of compounds, stoichiometry, atomic and molecular structure and common types of reactions. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 115 or MATH 119 (either may be taken concurrently). GenEd II.A.1. (UG)

CHEM 102 GENERAL CHEMISTRY II (4) Chemical thermodynamics, equilibrium, kinetics, solutions, acids, bases, and their aqueous equilibria, solubility product; oxidation-reduction and electrochemistry; elements of coordination and nuclear chemistry; chemistry of some important metallic and nonmetallic elements. Laboratory includes: preparation and quantitative analysis of a coordination compound; semimicro qualitative analysis of selected cations and anions. Three lecture hours and one three-hour laboratory period. A grade of C or better is recommended in CHEM 102 for admission to CHEM 210, CHEM 213, CHEM 215 and all upper-division chemistry courses. Prerequisite: CHEM 101. Offered each semester. GenEd II.A.1. (UG)

CHEM 105 CHEMISTRY FOR ALLIED HEALTH PROFESSIONS I (4) An introduction to the concepts of general chemistry, including states of matter, atomic structure and periodic table, molecular structure, chemical reactions, intermolecular forces, solutions, buffers and pH, and radioactivity. Laboratory includes data handling, and chemical and instrumental techniques. This course may not be used as a prerequisite for the chemistry major program. Three lecture hours and one three-hour laboratory. Prerequisite: MATH 115 or MATH 119 either may be taken concurrently. GenEd II.A.1. (UG)

CHEM 106 CHEMISTRY FOR ALLIED HEALTH PROFESSIONS II (4) An introduction to organic chemistry and biochemistry using a functional group approach; physical and chemical properties and typical reactions of organic compounds; composition and properties of lipids, carbohydrates, proteins, and nucleic acids, and the role of enzymes, vitamins and hormones. The laboratory introduces the student to simple techniques of synthesis and analysis, including chromatographic and chemical methods. Three lecture hours and one three-hour laboratory. Prerequisite: CHEM 105. GenEd II.A.1. (UG)

CHEM 112 HONORS CHEMISTRY FOR NON-SCIENTISTS (3) Discussion of a selected aspect of chemistry and its applications to technology, environment, and society. Topics will vary. Three lecture-demonstration hours. Prerequisites: High school chemistry recommended. Special permit from Honors College Committee required. GenEd II.A.1. (UG)

CHEM 210 PRINCIPLES AND METHODS OF CHEMICAL ANALYSIS (4) A one semester course in chemical analysis for non-chemistry majors emphasizing the theory and application of common gravimetric, volumetric, chromatographic, spectrophotometric, and electrometric techniques. Two lecture hours, one recitation hour, and four laboratory hours. Prerequisite: CHEM 102, with a grade of C or better recommended. (UG)

CHEM 213 INTRODUCTION TO QUANTITATIVE ANALYTICAL CHEMISTRY (3) Treatment of data pertaining to chemical analysis. Theory and practice of common gravimetric, volumetric, chromatographic and spectrophotometric methods of analysis. Three lecture hours. It is highly recommended that CHEM 215 be taken concurrently or within the same academic year. Not open to students who have taken CHEM 211. Prerequisite: CHEM 102, with a grade of C or better recommended. (UG)

CHEM 215 QUANTITATIVE ANALYTICAL CHEMISTRY LABORATORY (2) Classical gravimetric and volumetric methods of analysis. Introduction to analytical application of chromatography, potentiometry and spectrophotometry. Six laboratory hours. It is highly recommended that CHEM 213 and CHEM 215 be taken concurrently or within the same academic year. Not open to students who have taken CHEM 211. Prerequisite: CHEM 102, with a grade of C or better recommended. Pre/co-requisite: CHEM 213. (UG)

Upper Division

CHEM 321 DESCRIPTIVE INORGANIC CHEMISTRY (3) The chemistry of simple inorganic substances, particularly reactions in aqueous solution. Periodic properties, relationships of bond types and properties of substances, acid-base theories and reactions, redox and precipitation reactions, coordination compounds, applications of thermodynamics. Syntheses and characterizations of main group and transition metal compounds. Two lecture hours and three laboratory hours. Prerequisites: CHEM 210 or (CHEM 213 and CHEM 215), with a grade of C or better recommended. (UG)

CHEM 330 ESSENTIALS OF ORGANIC CHEMISTRY (5) A one semester course in organic chemistry for non-chemistry majors taught on a conceptual basis. Emphasis will be on principles, mechanisms, and

modern techniques. Laboratory will include synthesis and identification of organic compounds. Three lecture hours, one recitation hour and one three-hour laboratory period. Prerequisite: CHEM 102, with a grade of C or better recommended. (UG)

CHEM 331 ORGANIC CHEMISTRY I (5) Structure, stereo-chemistry, reactions and their mechanisms, preparation and properties of: alkanes, alkenes, alkynes, aromatic compounds, alkyl halides and alcohols. Laboratory techniques include purification, spectroscopic (IR, NMR), and chromatographic (GLPC) methods of identification, and synthesis. Three lecture hours, one hour of laboratory lecture, and one three-hour laboratory period. Prerequisite: CHEM 102, with a grade of C or better recommended. (UG)

CHEM 332 ORGANIC CHEMISTRY II (5) Structure, reactions and their mechanisms, preparation and properties of alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives, amines, carbohydrates, etc. Laboratory emphasizes synthetic techniques and modern qualitative organic analysis using chemical reactions and IR, UV, and NMR. Three lecture hours, one hour of laboratory lecture and one three-hour laboratory period. Prerequisite: CHEM 331. (UG)

CHEM 340 PHYSICAL CHEMISTRY: PRINCIPLES AND APPLICATIONS (3) A survey of physicochemical theory, experimental methods, and applications; thermodynamics, solutions and phases, reaction kinetics, applications of quantum mechanics, and instrumental techniques, illustrating the contributions of physical chemistry to other scientific fields. Three hours lecture/discussion. Prerequisites: CHEM 102, with a grade of C or better recommended, MATH 115 or MATH 119, and PHYS 203 or PHYS 211 or PHYS 241 or equivalent. MATH 273 is strongly recommended. (UG)

CHEM 341 [542] PHYSICAL CHEMISTRY--THERMODYNAMICS (3) Thermodynamics, phase relations, solution properties, chemical equilibrium and electrochemistry. Three lecture hours. Prerequisites: CHEM 102, with a grade of C or better recommended, MATH 274, and PHYS 242 or PHYS 212 or equivalent. (UG & G)

CHEM 342 [543] PHYSICAL CHEMISTRY--STRUCTURE AND KINETICS (3) Introduction to quantum chemistry; atomic and molecular structure, atomic and molecular spectroscopy, introduction to statistical thermodynamics, kinetic theory, and chemical kinetics. Three lecture hours. Prerequisites: CHEM 102, with a grade of C or better recommended, MATH 274, and PHYS 242 or PHYS 212 or equivalent. (UG & G)

CHEM 351 INTRODUCTORY BIOCHEMISTRY (3) An overview of the chemistry of proteins, nucleic acids, carbohydrates, and lipids. Basic enzyme catalysis and kinetics biochemical genetics, membrane structure, bioenergetics, and analytical methods. General principles of metabolism applied to several major pathways. Three lecture hours. Not open to students with credit for CHEM 350 or CHEM 355. Prerequisites: CHEM 330 or CHEM 332 (recommended), with a C or better recommended in each. (UG)

CHEM 356 BIOCHEMISTRY LABORATORY (2) Physical methods in biochemistry including spectrophotometry, centrifugation and ultracentrifugation, electrophoresis, and chromatography. Isolation and purification of proteins and nucleic acids. Enzyme kinetics and the binding of small molecules to macromolecules. One lecture hour and three laboratory hours. Prerequisites: CHEM 210 or (CHEM 213 and CHEM 215), and CHEM 351 (may be taken concurrently), with a grade of C or better recommended in each. (UG)

CHEM 361 [562] CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION (3) Deals mainly with water pollution: causes, effects, and cures. Considers details of water. Concerns standards of water purity and variables involved. Demonstration of analytical methods to be given. Case studies and applications are viable approaches to this topic. Three lecture hours. Prerequisites: CHEM 102, with a grade of C or better recommended, and BIOL 110. (UG & G)

CHEM 363 [564] CHEMISTRY OF DANGEROUS DRUGS (3) A study of the chemistry, methods of detection and analysis of narcotics, depressants, stimulants and hallucinogens. Also, the influence of physicochemical properties upon the pharmacological effects of drug receptor interactions. Historical, forensic, and socio-economic implications associated with drug abuse will also be reviewed. Three lecture hours. Prerequisites: CHEM 330 and CHEM 351 or CHEM 331 and CHEM 332, CHEM 210 or (CHEM 213 and CHEM 215 recommended), with a grade of C or better recommended in each. (UG & G)

CHEM 365 [566] POLYMER CHEMISTRY (3) Course will cover the following aspects of polymers: structure, physical properties, methods of preparation, rheology, mechanical properties, degradation and stabilization, application and fabrication, and related contemporary topics. Carbon chain and heterochain polymers will be discussed, and spectroscopic

methods of analysis (IR, UV and NMR) will be presented. Three lecture hours. Prerequisites: CHEM 101, CHEM 102, CHEM 331 and CHEM 332, with a C or better recommended in each. (UG & G)

CHEM 367 [568] FORENSIC CHEMISTRY (3) An introduction to chemical and physical analyses used by a modern crime laboratory in the evaluation of physical evidence encountered in criminal acts. Areas of concentration will include drug analysis, toxicology, forensic serology, explosives, analysis, arson examination, firearms and tool marks and trace evidence. Emphasis will be placed on the value of such examinations as presented by the expert witness in a criminal trial. Three lecture hours. Prerequisites: CHEM 101, CHEM 102, CHEM 210 or (CHEM 213 and CHEM 215), CHEM 330 or CHEM 332, with a grade of C or better recommended in each. (UG & G)

CHEM 369 [570] ORGANOMETALLIC CHEMISTRY (3) A survey of the chemistry of compounds containing carbon-metal bonds. Syntheses, reactions and structures of compounds such as metal alkyls, carbonyls, pi-complexes, and the uses of these compounds in synthesis will be considered. Three lecture hours. Prerequisites: CHEM 321, CHEM 331, CHEM 332 recommended, with a grade of C or better recommended in each (UG & G)

CHEM 372 INTERMEDIATE LABORATORY I (1) Introductory experiments in physical and analytical chemistry applying spectroscopic, calorimetric, and electrochemical techniques to characterize properties of materials and chemical systems. Three laboratory hours. Not open to students who have completed CHEM 343. Prerequisites: CHEM 210 or (CHEM 213 and CHEM 215) and CHEM 340 or CHEM 341 or CHEM 342 (either may be taken concurrently), with a grade of C or better recommended in each. (UG)

CHEM 373 INTERMEDIATE LABORATORY II (1) A series of experiments in physical and analytical chemistry applying mass spectrometry, NMR spectroscopy, IR spectrophotometry, and molecular modeling to problems in molecular structure, chemical composition, reaction kinetics, and reaction equilibrium. Three laboratory hours. Prerequisites: CHEM 332 and CHEM 372, with a grade of C or better recommended in each. (UG)

CHEM 374 INTERMEDIATE LABORATORY III (1) A series of experiments involving the theory of instrument design, and application of chromatography and atomic spectroscopy to the solution of chemical problems. Three laboratory hours. Prerequisites: CHEM 330 or CHEM 331, and CHEM 372, with a grade of C or better recommended in each. (UG)

CHEM 383 [584] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS I (3) Survey of principles and applications of chemistry for secondary school teachers. Lecture: chemical reactions, stoichiometry, atomic structure, and theories of chemical bonding. Laboratory: an examination of experiments suitable for the secondary school curriculum with emphasis upon laboratory safety. Two lecture hours and two hours of laboratory-discussion. Prerequisite: high school algebra, experience as secondary school teacher, and consent of instructor. (UG & G)

CHEM 384 [585] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS II (3) Survey of principles and applications of chemistry for secondary school teachers. Lecture: properties of solutions, acid/base theories, reaction kinetics, chemical equilibrium, thermodynamics, states of matter, and nuclear chemistry. Laboratory: an examination of experiments suitable for the secondary school curriculum with emphasis upon laboratory safety. Two lecture hours and two hours of laboratory-discussion. Prerequisite: CHEM 383 or CHEM 584, with a grade of C or better recommended, and consent of instructor. (UG & G)

CHEM 385 [586] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS III (3) Experimental chemistry for secondary school teachers: principles of laboratory measurements, design of experiments, obtaining and interpreting experimental data, laboratory techniques and instrumentation. Two lecture hours and two hours of laboratory-discussion. Prerequisite: CHEM 384 or CHEM 585, with a grade of C or better recommended, and consent of instructor. (UG & G)

CHEM 386 [587] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS IV (3) Survey of principles and applications of physical chemistry for secondary school teachers. Chemical thermodynamics, descriptions of solutions, kinetic theory of gases, reaction rates and mechanisms, and introduction to quantum mechanics. Three lecture hours. Prerequisite: CHEM 385 or CHEM 586, with a grade of C or better recommended, and consent of instructor. (UG & G)

CHEM 387 [588] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS V (3) Organic chemistry for secondary school teachers. Functional groups, reaction mechanisms, natural products. Simple and complex techniques of purification, analysis, and synthesis. Three lecture hours and one hour of laboratory. Prerequisite: CHEM 386 or CHEM 587, with a grade of C or better recommended, and consent of instructor. (UG & G)

CHEM 388 [589] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS VI (3) Principles and applications of biochemistry for secondary school teachers. Structures and functions of biological molecules, enzymes, metabolic energies, and nucleic acids. Three lecture hours. Prerequisite: CHEM 387 or CHEM 588, with a grade of C or better recommended, and consent of instructor. (UG & G)

CHEM 389 [590] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS VII (3) Modern instrumental methods for secondary school teachers. An integrated laboratory-lecture course discussing four major instrumental methods and their uses in solving typical chemical problems: spectrophotometry, nuclear magnetic resonance spectroscopy, mass spectrometry, and chromatography. Two lecture hours and two hours of laboratory-discussion; short field trips may be required. Prerequisite: CHEM 388 or CHEM 589, with a grade of C or better recommended, and consent of instructor. (UG & G)

CHEM 391-394 [501-504] SPECIAL PROBLEMS IN CHEMISTRY (1-3) A laboratory or library problem in chemistry to be selected by the student in consultation with the instructor. Students are required to submit a written report. May be repeated for credit as CHEM 392, CHEM 393, etc. Prerequisite: Consent of instructor. (UG & G)

CHEM 395 INTERNSHIP IN CHEMISTRY (1-3) Students will be given credit in this cooperative education program for approved experience in chemistry. A written final report will be submitted by students. Performance to be graded as satisfactory (grade of S) or unsatisfactory (grade of U). May be repeated for credit as CHEM 396, etc.; maximum: six credits total. Prerequisites: A grade of C or better in CHEM 332 and either (CHEM 213 and CHEM 215) or CHEM 210, and consent of instructor. (UG)

CHEM 401 [500] SEMINAR IN CHEMISTRY (1) An introduction to chemical literature. Attendance at all seminars and presentation of seminars to the Chemistry Department on topics selected by the Chemistry faculty or selected by the student and approved by the faculty. One and one-half hour seminar period. Prerequisites: CHEM 213, CHEM 215, CHEM 332 with a grade of C or better in each, Co-requisite: CHEM 341 or CHEM 342. (UG & G)

CHEM 413 THEORY OF INSTRUMENTAL ANALYSIS (3) A discussion of spectroscopic, chromatographic and electrochemical systems, their design and their application to chemical analysis. Three lecture hours. Prerequisites: CHEM 213, CHEM 215 and CHEM 341 or CHEM 342, with a grade of C or better recommended in each. Not open to students with credit for CHEM 411. (UG)

CHEM 417 [518] ADVANCED ANALYTICAL CHEMISTRY (3) A special topics course dealing with the theory and application of more recent and specialized techniques of chemical separation and analysis. Three lecture hours. Prerequisites: CHEM 413 or CHEM 411, with a grade of C or better recommended.

CHEM 424 INORGANIC CHEMISTRY LABORATORY (2) Techniques of synthesizing and characterizing inorganic compounds. Types of compounds will include coordination compounds, non-metallic compounds, volatile hydrides, and organometallics. Synthetic techniques will include inert atmosphere techniques, vacuum line, non-aqueous solvents, high temperature synthesis, etc. One lecture hour and one three-hour laboratory period. Prerequisites: CHEM 213, CHEM 215, CHEM 332 and CHEM 425, with a grade of C or better recommended in each (may be taken concurrently).

CHEM 425 ADVANCED INORGANIC CHEMISTRY (2) Valence-bond and molecular orbital theories of bonding; bonding in solids; symmetry and spectroscopy; ligand field theory and reactions of coordination compounds; introduction to organometallic compounds; special topics. Two lecture hours. Not open to students with credit for CHEM 422 or CHEM 423. Prerequisites: CHEM 321, CHEM 332, CHEM 341 or CHEM 342, with a grade of C or better recommended in each. (UG)

CHEM 431 [534] ADVANCED ORGANIC CHEMISTRY LABORATORY (2) The design of organic synthesis, advanced laboratory techniques, and determination of structure by chemical and spectroscopic means. One lecture hour and three laboratory hours. Prerequisite: CHEM 332, with a grade of C or better recommended, and consent of instructor. (UG & G)

CHEM 432 [535] ADVANCED ORGANIC CHEMISTRY (3) Advanced topics will include several of: molecular orbital theory, pericyclic reactions, photochemistry, and determination of reaction mechanisms by: kinetics, linear free energy relationships, acid-base properties, acid-base catalysis, detection of intermediates, stereochemistry, etc. Three lecture hours. Prerequisites: CHEM 332 and CHEM 342, with a grade of C or better recommended in each; CHEM 341 is recommended. (UG & G)

CHEM 441 [546] ADVANCED PHYSICAL CHEMISTRY (3) Two topics in the area of Physical Chemistry to be covered in depth. Topics will be selected by the instructor after consultation with the students. Examples of possible topics are: formal wave mechanics, bonding, solid state, liquid state, surface chemistry, colloids, high polymers, rheology, ionic conductivity, electrochemical cells, scattering phenomena, statistical thermodynamics. Three lecture hours. Prerequisites: CHEM 341 and CHEM 342, with a grade of C or better recommended in each. (UG & G)

CHEM 452 [554] ADVANCED BIOCHEMISTRY (3) An in-depth exploration of several biochemical topics such as thermodynamics of macromolecular conformation, enzyme catalytic mechanisms, membrane biophysics, and metabolic regulation. Three lecture hours. Prerequisites: CHEM 332, CHEM 341, CHEM 342, and CHEM 351, with a grade of C or better recommended in each. (UG & G)

CHEM 454 INSTRUMENTAL METHODS IN BIOCHEMISTRY (2) Biochemical laboratory projects using infrared spectroscopy, nuclear magnetic resonance spectrometry, high performance liquid chromatography, mass spectrometry, electrophoresis, and other techniques. One lecture hour and three laboratory hours. Prerequisites: CHEM 356, CHEM 413, and CHEM 452, with a grade of C or better recommended in each (may be taken concurrently). (UG)

CHEM 461 FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE (2) Measurement and use of chemical shift, coupling constants, relaxation times and nuclear Overhauser effects to obtain chemical information for selected nuclei. Pulsed Fourier transform data acquisition and manipulation and the optimization of spectral parameters. Special problems encountered with quadrupolar nuclei, negative gyromagnetic ratio, paramagnetic materials, large molecules and solids and some solutions to them. Multiple pulse techniques. 25 Lecture hours and 10 lab hours per semester. Prerequisites: CHEM 332 and CHEM 413, with a grade of C or better recommended in each, and PHYS 212 or PHYS 242 or equivalent; or consent of instructor. (UG)

CHEM 475 INTERMEDIATE LABORATORY IV (1) Experiments in physical and analytical electrochemistry applying potentiometric and voltammetric techniques to study the thermodynamics and kinetics of electrochemical reactions; their application to solution of analytical problems. Three laboratory hours. Prerequisites: CHEM 341, CHEM 413, and CHEM 373 or CHEM 374, with a grade of C or better recommended in each. (UG)

CHEM 491-494 [505-508] INTRODUCTION TO RESEARCH IN CHEMISTRY (1-3) An original experimental or theoretical investigation. May be repeated for credit as CHEM 492, etc. CHEM 491 may not be taken in the student's final semester. Formal written report required. Evaluation by instructor- and student-selected members of faculty. Performance will be graded as satisfactory (grade of S) or unsatisfactory (grade of U). Prerequisite: Consent of instructor. (UG & G)

CHINESE (CHNS)

Lower Division

CHNS 101-102 ELEMENTARY MODERN CHINESE I, II (3,3) An introduction to standard modern Chinese (Mandarin). Emphasis is on reading and writing of Chinese. Pin Yin, the phonetic system of pronouncing Chinese words is introduced. Text, sound tape and vocabulary cards. GenEd II.D. (UG)

CHNS 201-202 CHINESE INTERMEDIATE I, II (3,3) Thorough review of Elementary Chinese; vocabulary building; conversational fluency and prose composition; translation; reading and discussion of selected outside reading (newspapers, magazines, Chinese literature). GenEd II.D. (UG)

Upper Division

CHNS 301-302 CHINESE COMPOSITION AND CONVERSATION I, II (3,3) Intensive exercises in Chinese conversation and composition beyond the intermediate level. Conducted in Chinese. Prerequisite: CHNS 201-202 or equivalent. GenEd II.D. (UG)

CHNS 491-492 DIRECTED READINGS IN CHINESE I-II (1-3), (1-3) Intensive reading under the supervision of a departmental advisor. Conducted in Chinese. Prerequisite: CHNS 301-302, consent of department chair. (UG)

CHINS 494 CHINESE STUDY ABROAD (3-16) The study of Chinese language, culture and/or literature at a university in China, Taiwan or Hong Kong. Available fall/spring/summer. (See Modern Language Department Chair and Office of International Education.) Prerequisite: Consent of the Modern Languages Department Program Coordinator and Department Chair. (UG)

COLLEGE OF BUSINESS AND ECONOMICS (CBEC)

CBEC 301 BUSINESS CORNERSTONE (3) Gateway course for developing knowledge, skills, and attitudes (KSAs); problem-solving, self-assessment, team work, computer technology, and communication for future courses and careers. To be taken concurrently with the Advanced Composition GenEd requirement. Required of all College of Business and Economics students. Prerequisites: Completion of College and Business lower-level prerequisites with a grade of C or better (UG)

CBEC 460 PROFESSIONAL EXPERIENCE (3) Capstone application of business knowledge, skills, and attitudes (KSAs) through professional responsibilities in employment, internship, or comparable experience. Prerequisites: Completion of 90 credits, including 18 CBE upper-level credits (UG)

COMMUNICATION SCIENCES AND DISORDERS (SPPA) See under "S"

COMMUNICATION STUDIES (COMM)

[Formerly Speech Communication (SPCH)]

Lower Division

COMM 115 INTRODUCTION TO INTERPERSONAL COMMUNICATION (3) Face-to-face communication skills in various contexts. (UG)

COMM 131 FUNDAMENTALS OF SPEECH COMMUNICATION (3) Perspectives of rhetoric and public speaking, investigating contemporary American experiences, delivering, and critiquing speeches. NOTE: Not open to those who have completed SPCH 131 prior to Fall, 1989. GenEd II.B.3. (UG)

COMM 132 HONORS FUNDAMENTALS OF SPEECH COMMUNICATION (3) Instruction in various kinds of public speaking (e.g., informative, persuasive, introductory, and impromptu); doing research, developing ideas with evidence, preparing outlines, delivering and critiquing speeches with emphasis on rhetorical criticism and ethical issues in speech communication. NOTE: Not open to those who have completed SPCH 132 prior to Fall, 1989. GenEd II.B.3. (UG)

COMM 216 GROUP DISCUSSION (3) Theory and methods of group decision-making in face-to-face and electronic contexts. Prerequisite: COMM 131 or SPCH 131. NOTE: Not open to those who have completed SPCH 216 prior to Fall, 1989. (U)

COMM 249-250 FORENSICS I,II (1.5, 1.5) Practical work in debate, oratory, extemporaneous speaking, and other speech projects. Study of national debate questions, and opportunity to participate in forensic activities. Prerequisite: Consent of instructor. NOTE: Not open to those who have completed SPCH 249-250 prior to Fall, 1989. (UG)

Upper Division

COMM 300 SPECIAL TOPICS IN FORENSICS (3) In-depth study of selected areas dependent on student and faculty interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisite: COMM 249 or SPCH 249. (UG)

COMM 301 NONVERBAL COMMUNICATION (3) Examination of the elements of nonverbal communication: environment, personal space, physical appearance, body movement, gestures, touching behavior, facial expression, and vocal cues. Course will investigate the effects of these on interpersonal and public communication. Prerequisite: SPCH 131 or SPCH 131, or consent of instructor. NOTE: Not open to those who have completed SPCH 301 prior to Fall, 1989. (UG)

COMM 303 ADVANCED PUBLIC SPEAKING (3) Principles and application of evidence, composition, organization, analysis, and criticism. Manuscript, persuasive, and impromptu speaking. Not open to those who have completed SPCH 303. Prerequisite: COMM 131 or SPCH 131 or COMM 132 or SPCH 132. NOTE: Not open to those who have completed SPCH 303 prior to Fall, 1989. (UG)

COMM 304 PERSUASION (3) Theory and practice of linguistic and symbolic persuasion; applications of rhetorical principles in social sciences and formal and informal communication; analysis of rhetoric through discussion. Prerequisites: Junior/Senior standing or consent of

instructor. NOTE: Not open to those who have completed SPCH 304 prior to Fall, 1989. (UG)

COMM 315 BUSINESS AND PROFESSIONAL COMMUNICATION (3) Professional interview and other dyadic encounters, curriculum vitae preparation, and exploration of communication in business structures: agendas, briefings, meetings, conferences, and strategies of attributional and communicative techniques. Prerequisite: COMM 131 or SPCH 131. Not open to those who have completed MCOM 315. (UG)

COMM 321 INTERPERSONAL COMMUNICATION (3) Examination and application of core concepts, advanced theories, and current research. Prerequisites: COMM 115 and COMM 131 or SPCH 131. NOTE: Not open to those who have completed SPCH 321 prior to Fall, 1989. (UG)

COMM 331 ADVOCACY AND ARGUMENT (3) Essentials of argumentation: research, analysis, evidence, reasoning, case construction, and refutation. Applications in fact, value, and public policy settings. Prerequisite: COMM 131 or SPCH 131, or consent of instructor. NOTE: Not open to those who have completed SPCH 231 or SPCH 331 prior to Fall, 1989. (UG)

COMM 349-350 FORENSICS III, IV (1.5, 1.5) Refer to COMM 249-250 for course description. Prerequisites: COMM 249-250 or SPCH 249-250 and consent of instructor. NOTE: Not open to those who have completed SPCH 349-350 prior to Fall, 1989. (UG)

COMM 379 INTERCULTURAL COMMUNICATION (3) Principles, research, and applications of cross-cultural discourse. Prerequisite: Junior/senior standing or consent of instructor. GenEd II.B.3. (UG)

COMM 418 [518] COMMUNICATION TRAINING AND DEVELOPMENT (3) Instructional strategies for implementing objectives, specifying and evaluating results. Prerequisites: COMM 115, COMM 216 or SPCH 216, and SPCH 231, COMM 331 or SPCH 331. (UG & G)

COMM 419 [519] ORGANIZATIONAL COMMUNICATION (3) Superior-subordinate communication, message dissemination, information overload, trust levels, and work group interaction. Prerequisite: COMM 131 or SPCH 131. NOTE: Not open to those who have completed SPCH 419 (519) prior to Fall, 1989. (UG & G)

COMM 420 [520] COMMUNICATION IN THE LEGAL PROCESS (3) Focus on communication questions and skills by lawyers, judges, litigants, and jurors in criminal and civil justice. Survey of research related to verbal and nonverbal aspects of communication as they apply to the legal concerns of interview, negotiation, and litigation. Undergraduate prerequisite: Junior/Senior standing. NOTE: Not open to those who have completed SPCH 420 (520) prior to Fall, 1989. (UG & G)

COMM 422 [522] CONFERENCE AND MEETING MANAGEMENT (3) Communicative details in preparing for and conducting events. Prerequisite: COMM 419 or SPCH 419, may be taken concurrently. (UG & G)

COMM 425 [525] EVIDENCE AND CREDIBILITY (3) Evaluating major sources of public intelligence, including the press, government, and academicians. Prerequisite: Junior/Senior standing and consent of instructor. (UG & G)

COMM 470 SPECIAL TOPICS IN COMMUNICATION (3) In-depth study of a selected area dependent on student and faculty interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisite: 18 credits of COMM, SPCH, or MCOM courses. (UG)

COMM 480 COMMUNICATION RESEARCH II (3) Descriptive methods, data analysis, critical and ethical evaluation of communication studies. Prerequisite: 18 credits of COMM, SPCH or MCOM courses. (UG)

COMM 490 INTERNSHIP IN COMMUNICATION STUDIES (1-6) Practical field experiences. Under faculty and I/CE supervision the student works as an intern with a working professional in some field of communication. Prerequisite: Junior/Senior standing. Minimum overall GPA of 2.75 and 3.00 in the major. Completion of appropriate courses determined by the department. Please check with the I/CE office for specifics. (S/U grading only) May be attempted for a maximum of 6 credits. (UG)

COMM 495 [595] INDEPENDENT STUDY IN COMMUNICATION STUDIES (1-6) Directed study through readings, projects, papers, or seminars. May be attempted for a maximum of 6 credits. Undergraduate prerequisites: Junior/Senior standing and consent of instructor. (UG & G)

Graduate Division

See TU Graduate Catalog for course descriptions.

COMPUTER SCIENCE (COSC)

Lower Division

COSC 101 COMPUTERS AND SOCIETY (3) Social and ethical concerns in a computerized society, including a history of the discipline. Two lecture hours and two laboratory hours with various applications packages. (Not open to students who have completed COSC 237.) (UG)

COSC 109 COMPUTERS AND CREATIVITY (3) Creative activities involving symbolic manipulation and computer graphics: animation, dynamic story telling, computer music, visual effects, web publishing, computer games, artwork, and multimedia. Two lecture hours and two laboratory hours. Prerequisite: None. GenEd I.E. (UG)

COSC 111 INFORMATION AND TECHNOLOGY FOR BUSINESS (3) Retrieve, process, classify, sort, and evaluate data and information. Problem solving techniques, creative thinking skills, communication skills, team building, and professional ethics. Laboratories covering the Internet, spreadsheets, and databases. Two lecture hours and two laboratory hours. (Students cannot earn credit for both this course and IDNM 101.) Prerequisite: None. GenEd I.B. (UG)

COSC 115 INTRODUCTION TO INFORMATION SYSTEMS (4) Survey of computer and information sciences: history of computing, an overview of computer organization, programming, systems analysis and design, and productivity applications; with emphasis on business topics. Additional independent laboratory work is required. (UG)

COSC 118 INFORMATION PROCESSING ON THE INTERNET (3) Search, retrieval, and use of the internet to analyze problems and related societal and ethical issues. Two lecture hours and two laboratory hours. Prerequisite: None. (UG)

COSC 165 FUNDAMENTALS OF COMPUTING (3) A first course in computing to provide the student with the requisite knowledge and experience to use computers effectively in the solution of numeric and non-numeric problems. Two lecture hours and two laboratory hours. Prerequisite: Two years of high school algebra or equivalent. (UG)

COSC 212 INTRODUCTION TO BUSINESS PROGRAMMING (3) A study of computer programming for business applications using a language such as COBOL. Students will design, implement, test and document programs in application areas such as payroll, accounting, inventory, and file maintenance. Not open to those who completed COBOL PROGRAMMING. Prerequisite: COSC 11 or COSC 115 or programming experience. (UG)

COSC 221 PROGRAMMING IN APL (1) Syntax and usage of the APL programming language; primitive functions; operators; function definition; branching and looping; work space operations; file operations; selected applications. Prerequisite: Knowledge of one other high-level programming language. (UG)

COSC 223 PROGRAMMING IN BASIC (1) Syntax and usage of the BASIC programming language; data types, variables, control structures, arrays, subprograms; file and file handling; elementary graphics; selected applications. Prerequisite: Knowledge of one other high level programming language. Not open to those who have completed COSC 165. (UG)

COSC 225 PROGRAMMING IN PASCAL (1) Syntax and usage of the Pascal programming language; data types and structures, variables, pointers; control structures; procedures and functions; files and file handling; selected applications. Prerequisite: Knowledge of one other high level programming language. Not open to those who have completed COSC 236. (UG)

COSC 227 PROGRAMMING IN FORTRAN (1) Syntax and usage of the FORTRAN programming language; data types, control structures; arrays, subprogramming; file handling; selected applications. Prerequisite: Knowledge of one other high level programming language. (UG)

COSC 236 INTRODUCTION TO COMPUTER SCIENCE I (4) Introduction to structured problem solving, algorithm development and computer programming with a modern high-level structured programming language such as Pascal, Ada, Modula-2 or C. Prerequisite: Satisfactory completion of a programming course in a high-level structured language and MATH 119 or equivalent. Three lecture hours and two laboratory hours. (UG)

COSC 237 INTRODUCTION TO COMPUTER SCIENCE II (4) Introduction to data representation, data structures and their implementations, computer systems concepts, application of data structures in sort and search algorithms and the software development

process. Prerequisite: COSC 236. Corequisite: MATH 211 or MATH 273. (UG)

COSC 280 ASSEMBLY LANGUAGE AND COMPUTER ARCHITECTURE (3) Principles and concepts of assembly language programming with an introduction to computer architecture, internal representation of instructions and data, addressing techniques, subprogramming, machine languages, macros, input/output, program linkage. Prerequisites: COSC 236 and MATH 263. Corequisite: COSC 237. (UG)

Upper Division

COSC 311 DIGITAL TECHNOLOGIES IN SOCIETY (3) Foundations and impacts of computing and digital technologies, including history, applications, and societal impacts. Prerequisite: Junior status and two science courses or one math course and one science course. GenEd II.A.2. (UG)

COSC 321 COMPUTERIZATION AND ITS IMPACTS (3) Computer technology and its social and economic impacts on organizations and individuals. Prerequisite: Upper Division Standing and completion of two science courses or one math course and one science course. GenEd II.A.2. (UG)

COSC 326 THE MATHEMATICS OF INFORMATION SCIENCE (3) Encoding information introducing metrics, isometries, equivalence relations, modular arithmetic, base 2 arithmetic, matrix algebra, probability and combinatorics, including codes, bar codes, check digits, internal computer representations of information and logic gates. Students cannot earn credit for both MATH 326 and COSC 326. (No credit toward a MATH major or minor.) Prerequisite: MATH 207 or permission of either the MATH or COSC department.

COSC 335 ADVANCED BUSINESS PROGRAMMING (3) A course in advanced programming concepts for business applications. Topics covered include the report writer feature, table handling, sorting, direct access files, program segmentation, and job control language. Students will work on several case studies and programming projects. Prerequisite: COSC 212. (UG & G)

COSC 336 DATA AND FILE STRUCTURES (4) Discussion of data and type abstractions, a number of different data structures and the tradeoffs involved in the use of such data structures, the analysis of algorithms sort and search algorithms and a discussion of file organization and file access methods. Prerequisite: COSC 237. Co-requisite: MATH 274. (UG)

COSC 338 COMPUTER ORGANIZATION AND ARCHITECTURE (4) Principles of computer organizations and architecture emphasizing the integration of the functional components of the machine. Topics include memory organization, microprogramming, multi-level machines, comparative computer systems, introduction to supercomputers and parallel computers, evolution and future trends of computer organization. 3 hours per week of laboratory work required. Prerequisite: COSC 280. (UG)

COSC 340 STRUCTURED DOCUMENTATION TECHNIQUES (3) Methodologies for writing effective documentation at the management, programmer, analyst and user levels. Prerequisite: COSC 336. (UG)

COSC 341 ADVANCED CONCEPTS OF INFORMATION SYSTEMS (3) Relationships among information systems, objectives and systems structure, covering human aspects, systems models, and applications. Prerequisites: COSC 237 and (COSC 111 or COSC 115). (UG)

COSC 350 DATA COMMUNICATIONS AND NETWORKING (3) Networks, topologies, architectures and protocols, circuit and packet switching, TCP/IP suite, network management and security, and network programming. Not open to student who successfully completed COSC 350 (Data Communications and Teleprocessing). Prerequisites: either COSC 336 and 338 or COSC 239 and COSC 334. (UG)

COSC 353 PROGRAMMING METHODOLOGIES IN UNIX AND C (3) Basic organization, major components, and important utilities of the UNIX system, including the C programming language. Prerequisites: COSC 237 and 280. (UG)

COSC 367 DISCRETE STRUCTURES (3) This course deals with the basic mathematical structures used in computer science. It covers boolean algebra, graph theory, semigroups, grammar and automata, showing how these structures apply to heuristic programming, networks and computer construction. Prerequisite: COSC 336. (UG)

COSC 397 INTERNSHIP IN COMPUTER SCIENCE (3) This course is designed to give Computer Science students the opportunity to be involved in a computing facility. Each student will be assigned to a specific facility associated with a local business or industry and will be supervised by the appropriate supervisor of the computing facility and by the faculty member in charge of the course. Prerequisites: 6 hours of upper division Computer Science courses and the consent of the instructor. May

be repeated for a maximum of 6 credits. Only 3 credits can be applied to the major. (UG)

COSC 407 SYSTEMS ANALYSIS (3) Analysis of existing information processing systems including systems life cycle, interactive refinement of analysis & design, information gathering & logical specifications. Credit will NOT be awarded for both COSC 407 and COSC 411. Prerequisite: COSC 341. (UG)

COSC 409 SYSTEMS DESIGN (3) Design of information processing systems (IPS) including system life cycle emphasizing design & implementative review of logical systems, design of physical systems, implementation; evaluation & maintenance. Credit will NOT be awarded for both COSC 409 and COSC 411. Prerequisite: COSC 407. (UG)

COSC 411 SYSTEMS AND DESIGN (3) A course designed to guide the student through the stages of the evolution of data processing systems, including analyses of present information flow, system specifications, equipment selection, and implementation of the system to provide an understanding of the skill and knowledge needed for the effective use of data processing equipment in meeting information needs. Prerequisites: COSC 336 and an additional upper-division Computer Science course. (UG)

COSC 412 SOFTWARE ENGINEERING (3) Methodology of designing and programming for a wide area of applications with a high degree of modifiability, efficiency, reliability and understanding. Prerequisites: COSC 334 or COSC 335 or COSC 336 and one 400-level COSC course. (UG)

COSC 415 [553] COMPILER DESIGN (3) Principles, techniques, algorithms, and structures involved in the design and construction of compilers. Topics include: lexical analysis, formal grammars, syntax, and semantics analysis, error recovery, code generation and optimization. Prerequisite: COSC 336. (UG & G)

COSC 417 INTRODUCTION TO THE THEORY OF COMPUTING (3) A general introduction to the theory of computation, including finite automata, compatibility, formal languages and their relation to automata, algorithms, and algorithmic complexity. The major emphasis will be on developing formal descriptions of computers and computational processes, and practical implications of theoretical results. Prerequisite: COSC 367 or MATH 361. (UG)

COSC 418 ETHICAL AND SOCIETAL CONCERNS OF COMPUTER SCIENTISTS (3) Ethical questions and societal concerns related to the widespread uses of computers and the resulting responsibilities of computer scientists. Prerequisite: two science courses or one math course and one science course. GenEd II.A.2. (UG)

COSC 431 SELECTED TOPICS IN COMPUTER SCIENCE (1-3) Independent studies in selected areas of computer science. A maximum of 4 credits may be earned in selected topics. Prerequisite: Consent of instructor and nine hours of computer science. (UG)

COSC 438 PARALLEL/VECTOR COMPUTER ARCHITECTURES & APPLICATIONS (3) Parallel/vector processing vectorization techniques, machine architectures, system controls, fast algorithms, supercomputers applications, programming requirements and simulated application designs. Prerequisite: COSC 338. (UG)

COSC 439 [519] OPERATING SYSTEMS (3) Operating systems as resource manager with emphasis on file processor, memory, and device management and processes. Design and implementation of a simulated multiprogramming operating system. Prerequisites: COSC 336 and MATH 330. (UG & G)

COSC 441 [571] COMPUTER PERFORMANCE EVALUATION (3) Computer system performance evaluation methodologies, techniques and tools including different types of monitors as a measurement tool, workload characterization, important performance indices, analytic modeling with particular emphasis on the application of the operational queuing network modeling techniques to performance analysis, and technical aspects of computer selection. Prerequisites: MATH 274 and Pre or Co-requisite COSC 439. (UG & G)

COSC 455 PROGRAMMING LANGUAGES: DESIGN AND IMPLEMENTATION (3) Underlying concepts in high level programming languages and techniques for their implementation, a survey of a selected group of such languages along with a discussion of the interrelationship between programming and programming languages. Prerequisite: COSC 336. (UG)

COSC 457 [578] DATABASE MANAGEMENT SYSTEMS (3) Data models and sublanguages. Security and integrity problems. The functions of the database administrator. The implementation and use of a database management system. A comparison of widely used DBMS packages. Prerequisite: COSC 334 or COSC 336. (UG & G)

COSC 459 COMPUTER SIMULATION AND MODELING (3) Simulation models and languages, data collection and output analysis,

random number generation and Monte Carlo integration, model verification and validation, variance reduction techniques, optimization, the implementation and use of simulation techniques in problem solving. Prerequisites: COSC 336 and MATH 330. (UG)

COSC 461 [581] ARTIFICIAL INTELLIGENCE (3) A survey of the problems and techniques involved in producing or modeling intelligence in computers. Particular emphasis will be placed on representation of knowledge and basic paradigms of problem solving. Topics include game playing, theorem proving, natural language and learning systems. Prerequisite: COSC 336. (UG & G)

COSC 471 [586] COMPUTER GRAPHICS (3) An introduction to the field of computer generated and/or displayed graphics data. Covers the topics of representation, transformations, curve and 3-D problems, graphics, hardware, and programming considerations. Prerequisite: COSC 336. (UG & G)

COSC 480 SENIOR SEMINAR (1) To prepare students to deal as professionals with the social and ethical issues in the computing sciences as well as to make them aware of the broad applications of computers and the implications of these applications. Students majoring in Computer Science must take either this course or COSC 418, but not both. Prerequisite: Senior standing in Computer Science. (UG)

COSC 483 [583] DESIGN AND ANALYSIS OF ALGORITHMS (3) Algorithm design methods such as heuristics, backtrack programming, branch and bound, recursion, simulation, divide-and-conquer, balancing and dynamic programming. Efficiency of algorithms--Np-complete problems. Prerequisite: COSC 336. (UG & G)

COSC 493 DIRECTED READINGS IN COMPUTER SCIENCE (HONORS) (3) Individual readings and background research, under the direction of a faculty member, in preparation for writing an honors thesis (restricted to students in the departmental honors program). Prerequisite: Admission to the departmental honors program. (UG)

COSC 495 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-3) Directed study in selected areas of Computer Science for which there is no regular course being offered. The use of a proposal and well-defined objectives as well as a formal paper or project report is required. Prerequisite: Senior standing in Computer Science and consent of instructor. (UG)

COSC 499 HONORS THESIS IN COMPUTER SCIENCE (3-6) Writing of an honors thesis based on individual research (open only to advanced honors candidates). Prerequisite: Permission of Departmental Honors Committee. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

DANCE (DANC)

Lower Division

DANC 101 THE ALEXANDER TECHNIQUE (3) Development of analytical and biomechanical skills to change habitual patterns that lead to chronic pain or postural misalignment. (UG)

DANC 102 INTRODUCTION TO DANCE (3) Western concert dance as a cultural phenomenon, methods of training, evolution of dance aesthetics, and building a world view through movement. GenEd II.C.1. (UG)

DANC 105 MOVEMENT SKILLS ENHANCEMENT FOR MEN (3) Athletic and movement skills using movement techniques to improve these skills. GenEd II.B.3. (UG)

DANC 106 FUNDAMENTALS OF DANCE MOVEMENT (2) Floor and standing work to develop upper/lower connectivity, increased rotation, efficient movement patterns and proper support for dance movement. GenEd II.B.3. (UG)

DANC 109 JAZZ DANCE I (2) American jazz dance as traced historically through movement from Afro-Caribbean and vaudeville forms to Broadway show styles from the 1920's through the 1950's.

DANC 111 TAP DANCE I (2) A beginning study of the technical fundamentals of tap dance. Includes basic one and two sound movements performed at the barre and simple rhythmic combinations in center. Also includes time steps and simple turns. (UG)

DANC 201 DEVELOPMENTAL MOVEMENT (2) Movement-based experiences in developmental stages of children, including relationships with objects and other people, motor actions, personality development and organization in space.

DANC 209 JAZZ DANCE II (2) A continuation of Broadway show from the early 1960's to the present day; Includes study of contemporary jazz technique with emphasis on rock, funky, lyric and percussive movement. May be repeated for credit. Prerequisites: DANC 109 and DANC 103.

(UG)

DANC 223-224 LEVEL I BALLET (2) Elementary classical ballet technique: classical form, static and dynamic alignment, rotation, weight shift, breath support, and level change with application to classical ballet vocabulary. May be repeated for credit. Prerequisite: dance majors only, special permit required.

DANC 227-228 LEVEL I MODERN (2) Study of elementary modern dance technique: level change, weight shift, dynamic alignment, breath support and expression, and application of modern dance vocabulary. May be repeated for credit. Prerequisite: dance majors only, special permit required.

DANC 235 DANCE COMPOSITION I (3) Introduction to the creative process through improvisation activities: self exploration, group interaction, relating musical tone and character to the development of thematic and abstract movement invention. GenEd I.E. (UG)

DANC 251 METHODS OF TEACHING DANCE (3) Student-directed approach to the teaching of creative movement to all age levels, emphasizing the elementary school age child. Includes developmental perspective, the movement elements, lesson-building, unit conceptualization, observation, and simulation. Prerequisite: Developmental Movement: DANC 201. (UG)

DANC 310 JAZZ DANCE III (2) A continued study of contemporary jazz technique with emphasis on performance of styles used on the concert stage, television and motion pictures. May be repeated for credit. Prerequisite: DANC 309. (UG)

DANC 321 HISTORY OF THE DANCE (3) An overview of dance history through the ages from its tribal beginnings to the present day. An emphasis will be placed on writing skills. Prerequisites: Jr./Sr. standing; ENGL 102 or 190. Approved Group I/C-Advanced level writing course. (UG)

DANC 323-324 LEVEL II BALLET (3) Continued study of classical ballet technique: Emphasis on exploring and embodying a particular world view. Includes: intermediate level enchainments, shifting weight; physically and musically connecting movement sequences; sequencing combinations designed to develop both strength and flexibility. May be repeated for credit. Prerequisites: dance majors only, special permit required. GenEd I.D> (UG)

DANC 327-328 LEVEL II MODERN (3) Continued study of intermediate modern dance technique. Emphasis on exploring and embodying a particular world view. Includes: expanded movement vocabulary involving sequences of greater complexity -- kinesthetically, spatially, and musically. May be repeated for credit. Prerequisite: dance majors only, special permit required. (UG)

DANC 335 DANCE COMPOSITION II (3) Solo and duet choreography. Prerequisite: DANC 2(35), dance majors only, special permit required. Graded under S/U procedure. (UG)

DANC 336 DANCE COMPOSITION III (3) Group Studies: continued exploration of thematic and abstract material; elements of dance and musical forms. Prerequisite: DANC 335, dance majors only, special permit required. Graded under S/U procedure. (UG)

DANC 341 POINTE TECHNIQUE I (2) Basics of pointe (toe) work essential to the student whose interest is in total comprehension of the elements necessary to the performance of classical ballet. Includes work to strengthen the ankles and insteps, and acclimation of body weight and placement sur les pointes. May be repeated for credit. Prerequisite: DANC 213-214 or by permission of the instructor. (UG)

DANC 342 POINTE TECHNIQUE II (2) Continuum of Pointe Technique I with emphasis on tempi, allegro combinations, enchainments au milieu and barre supported adage. May be repeated for credit. Prerequisite: DANC 341. (UG)

DANC 351 TEACHING DANCE TECHNIQUE (3) Organization, sequencing, and teaching techniques for studio dance classes in ballet, modern, jazz, and tap dance. (UG)

DANC 370-379 SPECIAL TOPICS IN DANCE (1-3) Workshops and courses designed for study of special topics in dance not available in existing courses. Examples of such topics as: Principles and Practices of Auditioning, Dance Repertory, Seminar in Dance Education, etc. Will be offered depending on student and faculty interest and availability. Prerequisite: Consent of department chair. (UG)

DANC 381-382 DANCE COMPANY (3,3) Study and performance of advanced compositions including works by professional guest choreographers in ballet, modern and jazz/musical theatre dance styles. Rehearsals September through May. 3 credits received in spring semester reflect 2 semesters of participation. Prerequisite: Audition. (UG)

DANC 383 MODERN DANCE REPERTORY (3) Concentrated study of historical, current, or new repertory in ballet, culminating in (a)

performance(s). May be repeated for credit. Prerequisite: DANC 313-314 or consent of the instructor. (UG)

DANC 391 STUDENT TEACHING IN ELEMENTARY SCHOOL (6) (UG)

DANC 392 STUDENT TEACHING IN SECONDARY SCHOOL (6) (UG)

DANC 421 SCIENTIFIC BASES FOR DANCE ANALYSIS (3) Anatomical, physiological and biomechanical principles of human movement. Laboratory application of these principles to body alignment and movement for dance. (UG)

DANC 423-424 LEVEL III BALLET (3) Continued study of classical ballet technique: advanced level enchainments, standard classical divertissement and style distinctions including progression of technical complexities and approaches to contemporary ballet stylization. May be repeated for credit. Prerequisites: dance majors only, special permit required. (UG)

DANC 427-428 LEVEL III MODERN (3) Continued study of advanced modern dance technique utilizing complex movement and sequences. Focus on interpretation and performances. May be repeated for credit. Prerequisite: dance majors only, special permit required. (UG)

DANC 435 DANCE COMPOSITION IV (3) The relationship between choreographic intent and movement vocabulary, form and content, process and product; continued study of: ensemble work; collaboration with allied artists; and production elements. Prerequisites: DANC 336, dance majors only, special permit required. Graded under S/U procedure. (UG)

DANC 451/551 DANCE EDUCATION AND PUBLIC POLICIES (3) Examination of strategies for dance arts advocacy and dance education policies in public school contexts. Prerequisites: DANC 251, dance majors only, special permit required. (UG/G)

DANC 480 SENIOR PROJECT: SEMINAR (2) Preparation for producing a dance concert or lecture-demonstration: planning, programming, technical production, box office management, budgeting, publicity, and documentation. Prerequisite: Senior dance majors only, special permit required. Graded under S/U procedure. (UG)

DANC 481-482 DANCE COMPANY (3,3) Study and performance of advanced compositions including works by professional guest choreographers in ballet, modern and jazz/musical theatre dance styles. Rehearsals September through May. 3 credits received in spring semester reflect 2 semesters of participation. Prerequisite: Audition. (UG)

DANC 491 SENIOR PROJECT: CONCERT/LECTURE DEMONSTRATION (3) Student-directed concert or lecture-demonstration production; publicly produced in the spring semester of the senior year. (Section 491.001 is reserved for dance majors in the dance performance track. Section 002 is for majors in the dance performance and education track.) Prerequisite: DANC 480, dance majors only, special permit required. Graded under the S/U procedure. (UG)

DANC 492 PRACTICUM IN DANCE TECHNIQUE (VARIABLE) Student-directed studio coursework in dance technique at a departmentally approved professional training school or program. May be repeated for credit. Prerequisites: dance majors only, special permit required. (UG)

DANC 495 INDEPENDENT STUDY IN DANCE (1-3) Self-directed study of an academic or creative project designed to focus on a specialized area of dance. May be repeated for credit. Prerequisite: Approval of plan of study by instructor and Department Chair. (UG)

DEVELOPMENTAL MATHEMATICS (DVMT)

Lower Division

DVMT 100 DEVELOPMENTAL MATH I (4) A preparatory course designed to develop basic competence in arithmetic. Placement based on competency test scores. No credit toward graduation (Graded S/U). Prerequisite: Departmental Placement.

DVMT 101 DEVELOPMENTAL MATH II (4) A review of basic high school mathematics. Placement based on competency scores. No credit toward graduation (Graded S/U). Prerequisite: Departmental Placement.

DVMT 110 INTERMEDIATE ALGEBRA (3) Real number system, solutions of equations or inequalities in one and two variables, solutions of quadratic equations, exponents, radicals, functions, polynomial algebra, progressions and complex numbers. No credit toward graduation. (Graded S/U). Prerequisite: One year of high school algebra.

DEVELOPMENTAL READING (DVRD)

DVRD 100 DEVELOPMENTAL READING I (3) This course is designed to develop basic reading skills requisite to college-level reading. These skills include vocabulary development, literal comprehension, and textbook

study reading. Prerequisite: Department placement. Course does not carry credit toward graduation (Graded S/U).

DVDR 101 DEVELOPMENTAL READING II (3) This course reviews the basic reading skills and stresses the development of intermediate reading skills important for effective college reading. These intermediate skills include inferential comprehension, critical reading, and varied reading rates. Prerequisite: Department placement. Course does not carry credit toward graduation (Graded S/U).

DEVELOPMENTAL WRITING (DVWR)

DVWR 101 PREPARATION FOR COLLEGE WRITING (3) Review of grammar and usage; instruction and practice in writing effective sentences. Prerequisite to ENGL 102 for students whose scores indicate they need additional preparation for college-level writing. Departmental placement. Credit does not count toward graduation.

EARLY CHILDHOOD EDUCATION (ECED)

Lower Division

ECED 101 THE YOUNG CHILD AS A LEARNER (3) Introduction to the developing child and educational programs available for young children. Focuses primarily on the child himself. Classroom observation time required. (UG)

ECED 121 LABORATORY EXPERIENCES IN PROGRAMS FOR YOUNG CHILDREN (3) Practical application of educational theory through observation of and participation with young children in classroom situations. Concurrent with ECED 303. Prerequisite: ECED 101. (UG)

Upper Division

ECED 301 MATERIALS AND EXPERIENCES FOR THE YOUNG CHILD (3) Stimulating the intellectual, physical, social, and emotional development of young children through the use of varied instructional materials and activities. Prerequisite: ECED 101 or ECED 303 or consent of chair. (UG)

ECED 303 CURRICULUM FOR YOUNG CHILDREN (3) Curriculum content and methods of teaching in programs for children under six. Emphasis on the integrated curriculum of language arts, social studies, nutrition, health and safety. Prerequisite: ECED 101. Not open to students enrolling in Pre-primary Curriculum. (UG)

ECED 341 PRE-PRIMARY CURRICULUM (4) Historical development and contemporary practices in curriculum content and methods of teaching children under six. Emphasis on teacher as facilitator in developmentally appropriate environment. Integrated with concurrent courses in Art, Music, Physical Education, and Science. Half day per week field placement. Prerequisite: Open only to Early Childhood Education majors. ECED 101. PSYC 201, compliance with admission standards, consent of department chairperson. (UG)

ECED 342 PRIMARY CURRICULUM (4) Emphasis on developmentally appropriate objectives, materials, activities and methods for teaching primary grade language arts and social studies. Meets two hours weekly on campus. Participation one day for ten weeks in an assigned primary grade classroom. Prerequisite: Open only to Early Childhood Education Majors. ECED 341 or its equivalent. (UG)

ECED 351 STUDENT TEACHING IN EARLY CHILDHOOD: PRIMARY GRADE (5) Integration of theory and practice in primary grade classroom with guidance from classroom supervising teacher and university supervisor. Seminar sessions on campus to analyze, synthesize, and extend teaching experience. Approximately seven weeks. Prerequisite: Compliance with admission standards, consent of department chairperson and director of the Center for Applied Skills in Education. S/U grading. (UG)

ECED 352 STUDENT TEACHING IN EARLY CHILDHOOD: PRESCHOOL-KINDERGARTEN Integration of theory and practice in preschool or kindergarten setting with guidance from classroom supervising teacher and university supervisor. Seminar sessions on campus to analyze, synthesize and extend teaching experience. Approximately seven weeks. Prerequisite: Compliance with admission standards, consent of department chairperson and director of the Center for Applied Skills in Education. S/U grading. (UG)

ECED 355 DIFFERENTIATED STUDENT TEACHING IN EARLY CHILDHOOD EDUCATION (1-8) Student teaching experiences in addition to those in required student teaching courses (ECED 351, ECED 352), according to needs and interests of the student. Experiences may be in public schools, or in centers for young children such as Day Care Centers, Parent-Child or Infant Centers, hospitals, or special education programs in Early Childhood Education. Prerequisite: Approval of

student's advisor, Chair of Early Childhood Education, and Director Center for Applied Skills in Education (CASE); may be repeated for a maximum of 8 credits. S/U grading. (UG)

ECED 360 EMERGING LITERACY: BIRTH TO 5 YEARS (2) Focusing on developing literacy in children prior to grade one, emphasizing whole language approach and language related experiences. Theories, materials, and methods which develop literacy in developmentally appropriate environment, including assessment, family involvement, and responsibility to special needs learners. Prerequisite: Junior standing, major in ECED. Must be taken concurrently with ECED 341. (UG)

ECED 361 TEACHING READING IN EARLY CHILDHOOD EDUCATION (3) Teaching reading in early childhood education emphasizing developmentally appropriate active learning related to reading process in primary grades. Critical examination of current practices, content, procedures, materials for beginning reading through third grade. Prerequisite: 6 hours of early childhood or approval of Early Childhood Education Department. Day students must take concurrently with ECED 342. (UG)

ECED 403 [503] THE CURRICULUM IN PRIMARY EDUCATION (3) The child, curriculum, content, methods and materials of teaching, and program organization in the primary school years. Emphasis is on the integrated curriculum of Language Arts, Social Studies, Science, and Mathematics. Prerequisites: 6 hours of Early Childhood Education. Not open to students enrolling in Primary Curriculum. (UG & G)

ECED 405 WHOLE LANGUAGE IN THE EARLY CHILDHOOD CLASSROOM (1) Focuses on philosophy, methods, materials and whole language teaching programs. Prerequisite: ECED 341 and 342 or equivalents, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)

ECED 407 [507] INTERACTIVE TECHNOLOGY AND THE YOUNG CHILD (3)

Emerging issues on interactive technology and early childhood education. Availability and use of interactive technology in schools. Prerequisite: ISTC 201 (UG & G)

ECED 411 [511] PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCATION (3) The development of a rationale for improved parent-teacher relationships in Early Childhood Education programs. The role of paraprofessionals, specialists, and volunteers. Observation, participation, home and school visits by teachers and parents functioning as a team. Prerequisite: Six hours of Early Childhood Education. (UG & G)

ECED 412 COMMUNICATING WITH PARENTS OF YOUNG CHILDREN (1) Focuses on reporting, conferencing and involvement techniques which the teacher of young children can use to establish and maintain productive working relationship with parents. Prerequisite: ECED 341 and ECED 342 or equivalents, concurrent with student teaching or consent of department chairperson. Not open to students who have completed ECED 411. Infrequently offered. (UG)

ECED 415 [515] THE DAY CARE CENTER (3) An interdisciplinary course designed to prepare day care personnel. Resource persons from related agencies will participate. Topics include purposes of day care, problems of organization, administration and supervision, records, programs, community interaction, and parent relations. Field trips and observation of day care centers. Prerequisite: Six hours of Early Childhood Education. (UG & G)

ECED 416 ASSESSMENT OF YOUNG CHILDREN (1) Focuses on methods of assessment which are developmentally appropriate for young children. Prerequisite: ECED 341 and 342 or equivalents, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)

ECED 417 [517] EARLY IDENTIFICATION OF LEARNING DISABILITIES (3) Survey of the nature of learning disabilities in the young child; emphasis on early identification, theoretical approaches, major disability categories, survey of remedial principles. Prerequisites: 6 hours of Psychology and 6 hours of Early Childhood Education. (UG & G)

ECED 418 TEACHING THINKING SKILLS TO YOUNG CHILDREN (1) Focuses on current theories of teaching thinking skills with emphasis on methods, activities and questioning techniques appropriate in early childhood education. Prerequisite: ECED 341 and 342 or equivalent, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)

ECED 420 MANAGEMENT OF YOUNG CHILDREN (1) Development of proactive and remedial techniques for classroom management which can be used with young children. Prerequisite: ECED 341 and 342 or equivalents, concurrent with student teaching or consent of department chairperson. Infrequently offered. (UG)

ECED 421 [521] PROBLEMS IN EARLY CHILDHOOD EDUCATION (3) Research findings used as a basis for program planning in nursery school, kindergarten and primary grades; current trends and issues are considered. Prerequisite: student teaching and/or teaching experience in preschool or primary grades; Junior standing. (UG & G)

ECED 422 WRITING TECHNIQUES FOR TEACHERS IN EARLY CHILDHOOD EDUCATION (3) Applied techniques of written communications for classroom teachers and professional educators. Focus will be upon developing the ability to write thoughtful, well organized letters, reports, critiques and other professional papers. Prerequisites: ENGL 102/190 and 6 hours education. GenEd I.D. (UG)

ECED 423 [523] LABORATORY EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3) Classroom experiences with children in preschool and primary grades in a variety of teaching-learning situations. Analysis of observations in light of current research. Concurrent with ECED 421. Summers only. Prerequisite: Junior standing. (UG & G)

ECED 470-489 [570-589] SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Early Childhood Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate program coordinator. Each topic may be taken as a separate course, repeatable for different topics. (UG & G)

ECED 494 [594] TRAVEL AND STUDY: EARLY CHILDHOOD EDUCATION (1-6) A field study, including cultural tours in selected foreign countries, of current Early Childhood Education programs, facilities, and trends. Lectures, observations, and personal interactions. Required participation in planned educational activities and a follow-up paper. Prerequisites: Junior, Senior, graduate standing, or consent of the department chair. Consent of graduate program coordinator required for graduate degree credit. May be repeated for a maximum of 6 credits. (UG & G)

ECED 495 INDEPENDENT STUDY IN EDUCATION: EARLY CHILDHOOD EDUCATION (1-4) Independent study in selected areas of Early Childhood Education. Prerequisite: ECED majors only. Application form required. Special permit with ECED Chair. May be repeated for a maximum of 4 credits. Must have 3.0 QPA. (UG)

ECED 496 DIRECTED READING: EARLY CHILDHOOD EDUCATION (1-4) Independent reading in selected areas of Early Childhood Education. Prerequisite: ECED majors only. Application form required. Special permit with ECED Chair. May be repeated for a maximum of 4 credits. Must have 3.00 QPA. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

ECONOMICS

Lower Division

ECON 201 MICROECONOMIC PRINCIPLES (3) Economic reasoning of individual choice in household and market decisions; behavior of firms in competitive and noncompetitive markets, functioning of labor and capital markets, role of the entrepreneur, and effects of government policies. GenEd II.C.2. (UG)

ECON 202 MACROECONOMIC PRINCIPLES (3) Inflation and unemployment -- causes and remedies. Money and banking. Government spending and taxation. International trade. GenEd II.B.2. (UG)

ECON 203 HONORS MICROECONOMIC PRINCIPLES (3) How private enterprise determines what is produced, prices, wages, profits. Supply and demand. Competition and monopoly. Labor unions, income distribution. Farm policy. The role of government in our economy. Not open to students who have taken ECON 201. GenEd II.C.2. (UG)

ECON 204 HONORS MACROECONOMIC PRINCIPLES (3) Analysis of the aggregate dimensions of the American economy. An investigation of American culture by the study of the American economy. Topics include national income and employment, inflation, economic development, business cycles, international trade, government spending and taxation. Not open to students who have taken ECON 202. GenEd II.B.2. (UG)

ECON 205 STATISTICS FOR BUSINESS AND ECONOMICS (3) Analysis and presentation of business and economic data; descriptive statistics and statistical inference; measures of central tendency and variability; estimation; testing of hypothesis; linear regression analysis. Not open to students who have successfully completed ECON 301 (UG)

ECON 303 AMERICAN ECONOMIC DEVELOPMENT (3) Description and analysis of growth and development of U.S. economy and its institutions from colonial times to 20th century. Emphasis on "new"

economic history; explicit economic models and quantitative methods to analyze historical phenomena. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 305 SURVEY IN INTERNATIONAL ECONOMICS (3)

Principles of international trade and international monetary theory and finance; international economic problems and issues facing the United States within the global economy. This course will not count toward Economics major or minor requirements. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 309 INTERMEDIATE PRICE THEORY (3) Determination of prices, output, wages, resource allocation. Theory of the firm. Theory of competition, monopolistic competition, oligopoly, and monopoly. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 310 MACROECONOMIC THEORY (3) Impact of monetary and fiscal policy. The overall level of output, prices, employment, interest rates. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 313 MONEY AND BANKING (3) Organization and function of the money, credit and banking system of the United States, banking institutions, Federal Reserve System; the relation of money and credit to prices; foreign exchange. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 321 [521] HISTORY OF ECONOMIC THOUGHT (3) Development of economic theory; eighteenth and nineteenth century classical schools. Modern Economic literature on price, investment, and employment. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 323 COMPARATIVE ECONOMIC SYSTEMS (3) Effects of alternative institutional arrangements on incentives and individual behavior affecting the allocation of resources. Differences between decentralized or market systems and centralized or government planning. Prerequisites: ECON 201 and ECON 202. GenEd I.D. (UG)

ECON 325 ECONOMIC DEVELOPMENT (3) Theory of economic growth. Problems and programs relating to least developed countries. Prerequisites: ECON 201 and ECON 202. GenEd I.D. (UG)

ECON 330 INDUSTRIAL ORGANIZATION AND PRICE ANALYSIS (3) Competition, Collusion, Monopoly, and Oligopoly in regulated and unregulated markets. Economics of Firm Management, Market Organization, Sales Practices and Anti-Trust Laws. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 331 GOVERNMENT AND ECONOMIC LIFE (3) Economics and philosophy of markets and government, and criteria for judging their success: end-state vs. process, utilitarian vs. individual rights. Applications focus on competition and antitrust; others include industrial policy, welfare economics, and public choice. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 333 ECONOMICS OF POVERTY AND DISCRIMINATION (3) Study of the causes of poverty. How poverty and discrimination are interrelated. An analysis of existing and proposed programs to alleviate poverty and discrimination. Prerequisites: ECON 201 and ECON 202. GenEd I.D. (UG)

ECON 337 PUBLIC FINANCE (3) Non-market provision of goods and services at all levels of government: principles of public finance, specific public spending programs and taxes, allocation of resources and income distribution. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 339 HEALTH ECONOMICS (3) Analysis of the economic organization of the health care sector of the U.S. economy; alternative health care delivery systems and methods of financing health care services; current issues in health economics. Prerequisite: One upper level economics course or consent of instructor. (UG)

ECON 341 [541] LABOR ECONOMICS AND LABOR RELATIONS (3) The determination of wages. Labor unions: history, structure, activities, effects. Government labor policy. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 351 URBAN ECONOMICS (3) Economics bases for the existence of metropolitan areas. The economy of the metropolitan area; its growth, income distribution, economic stability. Transportation and land use patterns. Social and other problems of metropolitan areas. Application of elementary price theory to the analysis and solution of urban issues and problems. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 374 ECONOMIC ISSUES OF GENDER (3) Explores the changing role of men and women in the U.S. and other economies with specific emphasis on issues such as differences in occupations and wages, theories of discrimination, the economics of the household, child care, divorce, poverty, and the effect of government programs on families. Prerequisite: ECON 201. (UG)

ECON 375 ENVIRONMENTAL ECONOMICS (3)

Applying tools of economic theory to issues focusing on natural resources and environmental policy. Topics will include market failure, valuation

of non-market goods, cost-benefit analysis, and pollution. Prerequisite: ECON 201. (UG)

ECON 401 INTRODUCTION TO ECONOMETRICS (3) The problem of testing economic theories against empirical data; the formulation and estimation of regression model; the use of the method of multiple regression in testing the various hypotheses of economic theories; serial correlation; the problem of identification; application of simultaneous equation models; the use and construction of econometric models for forecasting and policy making. Prerequisite: ECON 301 or permission of instructor. (UG)

ECON 409 MANAGERIAL ECONOMICS (3) Applications of micro-economic theory to business policies and decisions. The utilization of analytical and decision-making tools derived mainly from economic theory, quantitative methods, finance and marketing theory. Topics considered include pricing practices and market structures, investment decision-making and estimation of demand and cost of production. Prerequisites: ECON 309, and ECON 301 or MATH 231. (UG)

ECON 410 BUSINESS CYCLES AND FORECASTING (3) Business cycle theory; measuring economic activities; policy proposals for controlling economic fluctuations. Prerequisite: ECON 313 or ECON 310. (UG)

ECON 419 APPLIED MICROECONOMICS (3) Applications of principles developed in price theory to problems arising in various market situations. Emphasis is on analysis and solutions of specific problems. Prerequisites: ECON 309. (UG)

ECON 421 INTERNATIONAL ECONOMICS (3) International trade theory; balance of payments, problems, and adjustment mechanism, foreign exchange; foreign trade policy; theory of tariffs and other trade restrictions; international monetary system and organization; trade and economic growth. Prerequisites: ECON 201 and ECON 202. (UG)

ECON 423 INTERNATIONAL MONETARY THEORY AND POLICY (3) International issues in money and banking. Foreign Exchange Markets, Exchange Rates, and Adjustment in the Balance of Payments. International Monetary Theory and its Application. Prerequisite: ECON 313. (UG)

ECON 451 INTRODUCTION TO MATHEMATICAL ECONOMICS (3) Intended primarily for students planning a graduate education in economics. A study of the fundamental mathematical methods widely used in Economics: calculus and linear algebra. Emphasis is on optimization theory; economic examples are used throughout. Prerequisites: ECON 309, ECON 310, or permission of instructor and MATH 211 or MATH 274. (UG)

ECON 470-479 TOPICS IN ECONOMICS (3) This course will study the economic development process in a particular area of the world. The region chosen will depend upon mutual faculty and student interest. There will be an analysis of the different factors that have promoted and hindered economic growth. Various policy options will be explored. Prerequisites: ECON 201 and ECON 202, junior standing and two advanced economic courses. (UG)

ECON 485 [585] SEMINAR ON ECONOMIC ISSUES (3) Research and writing of papers on an economic issue selected by the instructor. Prerequisites: ECON 309, ECON 313, and ECON 310. (UG & G)

ECON 493 [593] WORKSHOP ON ECONOMIC EDUCATION (3) Designed to help teachers and school administrators gain a better understanding of the economic working of the society in which we live. Prerequisite: Consent of the instructor. (UG & G)

ECON 495 INDEPENDENT STUDY (1-3) Individual and supervised study in selected areas of economics. Prerequisites: Economics major, junior standing, 3.00 QPA, and permission of instructor. (UG & G)

ECON 497 INTERNSHIP IN ECONOMICS (3) Supervised work experience designed to promote an understanding of the economic system and the practical application of economic principles. Prerequisites: Economics Major, junior standing, 3.00 GPA and consent of Internship Coordinator. (UG & G)

Graduate Division

See TU Graduate School Catalog for course descriptions.

EDUCATION (EDUC)

Lower Division

EDUC 101 CAREERS IN EDUCATION (2) Guided field experiences, designed to help students expand their knowledge of careers in education as a basis for choosing a major emphasis. Examination of careers in education and the scope of education in a democracy. (UG)

EDUC 201 THE PARENTING PROCESS (3) An appraisal of methods of parenting theories with specific references to Freud, Glasser, Harris, Gained, Dreikurs, Gesell, Skinner, and Spock. Designed for those wishing

to decide on parenting techniques and those who are professionals who counsel parents. Spring, Fall, Summer. (UG)

Upper Division

EDUC 301 WRITING AND COMMUNICATION SKILLS FOR TEACHERS (3) Practicum on development of written and oral communication skills needed in professional teaching situations. Focus will be on preparation of written materials which are appropriate for specific classroom and professional needs. Course content will be individualized to meet interests and needs of class members. Prerequisites: ENGL 102 or ENGL 190. GenEd 1.D. (UG)

EDUC 311 CREATIVE TUTORING (2) A course designed to address the needs of college students who are interested in working with adults in a tutorial relationship. Students will receive instruction in methods and materials for tutoring. Must be taken on S/U basis. Prerequisite: PSYC 101 and consent of instructor. (UG)

EDUC 325 FIELD EXPERIENCES: EDUCATION IN INFORMAL SETTINGS (1-3) Studying and/or working with children in non-classroom settings such as camps, recreational centers, or field trips. Individual plans of study and evaluation will be developed with the instructor. Prerequisite: Consent of instructor. (UG)

EDUC 401 FOUNDATIONS OF EDUCATION (3) Sociological, philosophical, psychological and historical foundations of western education. Perspectives in these areas as they relate to current educational issues and practices. Prerequisite: Consent of Chair, Department of Secondary Education. (UG)

EDUC 405 [505] PHILOSOPHY OF EDUCATION (3) Philosophic dimensions of the teaching learning process, as discriminated and discussed by major philosophers and education philosophers. (UG & G)

EDUC 406 [506] RECENT TRENDS IN TEACHING (3) Recent teaching strategies, organizational patterns and curricular innovations for levels K-12 are examined. Students may pursue individualized projects. Prerequisite: Student teaching or senior standing with consent of instructor. (UG & G)

EDUC 407 [507] CONTEMPORARY ISSUES IN EDUCATION (3) Seminar approach to current issues in education. Prerequisite: Student teaching or senior standing with consent of instructor. (No prerequisites when offered in day.) (UG & G)

EDUC 409 [509] FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2) Planning and working with groups of children in approved social agencies or making extensive studies of recreational and non-recreational social agencies. Class discussion and field trips. (UG & G)

EDUC 414 EDUCATIONAL TESTS AND MEASUREMENTS (3) Problems in measurement; principles, underlying choice of test instruments, survey of test literature; dealing with test data; correlation and interpretation of tests. (UG & G)

EDUC 417 [517] CHILDREN'S LITERATURE (3) Study of literature for children examining print and non-print materials. Attention to authors, illustrators, awards, criteria for selection, and importance in curriculum. Prerequisite: Two ENGL courses. (UG & G)

EDUC 418 [518] YOUNG ADULT LITERATURE (3) Examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent. (UG & G)

EDUC 419 [519] STORYTELLING (3) The selection and presentation of stories for children. A study of sources for the storyteller in folklore, myth, legend, poetry, and the writings of storytellers. Development of skills in storytelling. Prerequisite: EDUC 417 or consent of instructor. (UG & G)

EDUC 445 [545] HUMAN RELATIONS AND THE INDIVIDUAL (3) Consideration given to understanding one's self, the nature of prejudice and environmental factors which influence minority groups and cultures, and relationship of these factors to the development of meaningful educational programs. Prerequisites: For undergraduates: student teaching, and at least one course each in sociology and psychology. For graduates: teaching experience or certification. (UG & G)

EDUC 453 [553] SUPERVISORY PRACTICES IN TEACHER EDUCATION (3) Experiences and study in developing particular skills and competencies for supervising quality laboratory/field experiences. Content is designed for supervising teachers, team leaders, and resource personnel. Prerequisite: Teaching experience. Graduates count this as a workshop elective. (UG & G)

EDUC 460 [560] TEACHING IN A MULTI-CULTURAL/MULTI-ETHNIC SOCIETY (3) The course will provide teacher education students with the background knowledge, understandings, and techniques

to deal effectively with children from diverse cultural and ethnic backgrounds. Prerequisite: 3 credits in Education or PSYC 201. (UG)

EDUC 463 [563] SEX ROLE DEVELOPMENT IN THE SCHOOLS (2 or 3) An examination of theories of sex role development and their impact on educational methods and curriculum. Degree candidates must obtain permission of their graduate advisor. Staffed by College of Education. Assistance of Women's Studies staff may be utilized. The course will carry three credits when scheduled for three hours meeting per week and two credits when scheduled for two hours meeting per week. Prerequisite: 6 credits in Education. (UG & G)

EDUC 467 [567] TEAM TEACHING WORKSHOP (3) Conducted to assist teachers who are actively engaged in team teaching or will be participating as members of a team in the future. (UG & G)

EDUC 470-489 [570-589] SPECIAL TOPICS IN EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time there is a topic scheduled. Graduate credit only with approval of the graduate program coordinator. Each topic may be taken as a separate course. (UG & G)

EDUC 494 [594] TRAVEL AND STUDY EDUCATION: (PROJECT TO BE NAMED) (1-6) Study abroad of educational facilities, programs or practices, or selected projects in educational topics. By specific arrangement with program chair and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit. (UG & G)

EDUC 495 [595] INDEPENDENT STUDY IN EDUCATION: (PROJECT TO BE NAMED) (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of appropriate program chair. Graduate credit by consent of graduate program coordinator only. (UG & G)

EDUC 496 [596] DIRECTED READINGS IN EDUCATION (1-4) Independent readings in selected areas of Education, in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Prerequisite: approval of appropriate program chair. Graduate credit by consent of graduate program coordinator only. (UG & G)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

ELEMENTARY EDUCATION (ELED)

Upper Division

ELED 311 CHILD AND THE ELEMENTARY SCHOOL CURRICULUM (3) Curriculum approaches and methods for teaching children. Students observe, participate and teach in elementary school classrooms one day per week. Evening and summer students must also register for two weeks of ELED 399. Prerequisites: PSYC 201 and ELED 363. (UG)

ELED 321 TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3) Methods and materials for elementary school language arts instruction. Students develop own writing competencies. Prerequisites: ENGL 102 and PSYC 201. GenEd I.D. (UG)

ELED 323 TEACHING READING IN THE ELEMENTARY SCHOOL Survey of methods and materials for elementary school reading instruction. Various approaches examined and practiced in field settings. Prerequisites: PSYC 201 and ELED 363. (UG)

ELED 363 FIELD STUDIES FOR ELEMENTARY TEACHING (3) Initial experiences in teaching and learning in specified settings. Students study school and community activities related to classroom instruction. Prerequisite: PSYC 201 or consent of instructor. (UG)

ELED 365 TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3) Methods and materials for elementary school social studies instruction. Attention given to multicultural and global perspectives. Prerequisites: ELED 311. (UG)

ELED 429 [529] METHODS AND PRINCIPLES OF READING INSTRUCTION -- ADVANCED (3) Principles and methods underlying reading instruction, including the evaluation and prevention of reading difficulties. Prerequisite: ELED 323. (UG & G)

ELED 441 [541] CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) The child and the curriculum. The teacher's role in curriculum as a process. Principles and philosophies of curriculum development. Objectives, practices, materials, and evaluation trends. Prerequisite: ELED 379. (UG & G)

ELED 457 [557] ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (3) Methods of teaching English to elementary school children whose native tongue is another language. Prerequisites: Elementary

language arts methods course or elementary teaching experiences or consent of instructor. (UG & G)

ELED 458 [558] PRACTICUM: ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (1-4) Supervised practical experience in teaching English to elementary school children whose native tongue is another language. Prerequisite: ELED 457 and student teaching or teaching experience. May be repeated for a maximum of 4 credits. (UG & G)

ELED 470-489 [570-589] SPECIAL TOPICS IN ELEMENTARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Elementary Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate coordinator. Each topic may be taken as a separate course. May be repeated under separate topics for a total of 9 credits. (UG & G)

ELED 494 [594] TRAVEL AND STUDY: ELEMENTARY EDUCATION (1-6) Study abroad of educational facilities, programs, or practices, or selected projects in Elementary Education topics. By special arrangement with program chairperson and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit. May be repeated for a maximum of 6 credits. (UG & G)

ELED 495 [595] INDEPENDENT STUDY IN EDUCATION: ELEMENTARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Approval of appropriate program chair. May be repeated for a maximum of 4 credits. (UG & G)

ELED 496 [596] DIRECTED READING: ELEMENTARY EDUCATION (1-4) Independent reading in selected areas of Elementary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Prerequisite: Approval of appropriate program chair. May be repeated for a maximum of 4 credits. (UG & G)

Student Teaching

The following student teaching courses involve ten to twelve weeks, full-time, in public school classrooms under the guidance of master teachers. Conferences with the university supervisor. Prerequisite: Approval of Elementary Education Department and the Director of the Center for Applied Skills in Education (CASE).

ELED 379 STUDENT TEACHING IN ELEMENTARY SCHOOL (10) S/U grading. (UG)

ELED 399 DIFFERENTIATED STUDENT TEACHING -- ELEMENTARY (1-8) Student teaching experience in addition to those in ELEM 379 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the Director of the Center for Applied Skills in Education. May be repeated for a maximum of 8 credits. S/U grading. (UG)

ELED 469 STUDENT TEACHING SEMINAR (3) Readings, action research and discussion on school environments, instructional delivery, diagnosis/evaluation, classroom management policies. Active inquiry within context of classrooms and agencies that influence schooling practices. Co-requisite: with student teaching. Prerequisites: ELED 365 and ELED 429. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

ENGLISH (ENGL)

English Course Level And Numbering

Lower-division English courses (100-200 level) are designed as introductions to the subject. Upper-division English courses (300-400 level) are more particularly focused and assume the student has the background specified by the course prerequisites. There is no difference in degree of difficulty or specialization between 300 level and 400 level courses; students should not assume, therefore, that a 400 level course is more advanced than one at the 300 level.

Lower Division

ENGL 102 WRITING FOR A LIBERAL EDUCATION (3) Learning the critical methods of liberal education by writing college-level prose about significant books in four areas: the natural sciences, the humanities, the social sciences, and the fine arts. GenEd I.A. (UG)

ENGL 190 HONORS WRITING SEMINAR (3) Exploration of issues and critical methods vital to a liberal education. Development of strategies for effective writing. Emphasis on student essays and reports. Prerequisite:

- Admission to Honors College. Special permit required. GenEd I.A. (UG)
- ENGL 221 BRITISH LITERATURE TO 1798 (3)** Survey of poetry, prose, and drama from the Middle Ages through the eighteenth century; emphasis on works by Chaucer, Shakespeare, Milton, Pope, and Swift. GenEd II.C.1. (UG)
- ENGL 222 BRITISH LITERATURE SINCE 1798 (3)** Survey of poetry and prose of the nineteenth and early twentieth centuries, such as works by Wordsworth, Keats, Dickens, Browning, Lawrence, and Woolf. GenEd II.C.1. (UG)
- ENGL 230 MAIN CURRENTS IN AMERICAN LITERATURE (3)** Historical and thematic approach to literature that has helped define the national voice. Works by such authors as Hawthorne, Twain, Dickinson, Faulkner, and Plath. GenEd II.B.1. (UG)
- ENGL 233 SURVEY OF AFRICAN-AMERICAN LITERATURE (3)** Slave narratives, post-Civil War and twentieth-century developments and such writers as Wheatley, Douglass, Hughes, and King. GenEd II.C.3. (UG)
- ENGL 234 MAJOR WRITERS IN AFRICAN-AMERICAN LITERATURE (3)** Literature of slavery, the Reconstruction, the Harlem Renaissance, the Depression and after, with emphasis on Chesnut, Hughes, Wright, and Alice Walker. Prerequisite: ENGL 102. ENGL 233 is recommended but not required as a prerequisite to ENGL 234. (UG)
- ENGL 235 ETHNIC-AMERICAN LITERATURE (3)** Comparative survey of Asian, European, Black, Jewish, and other immigrant American literature, with emphasis on literary, historical, and sociological approaches. GenEd II.C.3. (UG)
- ENGL 236 AMERICAN INDIAN LITERATURE, 1772-PRESENT (3)** Emphasis on the contributions of American Indian writers to American Literature. Study of the genres in which American Indians have written, the influences of both Indian and non-Indian world views, themes, and techniques represented in these works. GenEd II.B.1. (UG)
- ENGL 237 19TH & 20TH CENTURY JEWISH LITERATURE (3)** Jewish literature from Eastern Europe, the United States, and Israel. Writers vary. GenEd II.C.3. (UG)
- ENGL 240 CLASSICS OF THE WESTERN HERITAGE (3)** Selections from the most influential literature of the Western Tradition. Authors will vary but will be of the stature of Homer, Dante, Shakespeare, Voltaire, George Eliot, and Dostoevsky. GenEd II.C.1. (UG)
- ENGL 241 WORLD LITERATURE THROUGH THE MIDDLE AGES (3)** Writings from Biblical and classical antiquity to the Renaissance. Content varies. Prerequisite: ENGL 102. (UG)
- ENGL 242 WORLD LITERATURE FROM THE RENAISSANCE (3)** Writings from the Renaissance to the present era. Content varies. Prerequisite: ENGL 102. (UG)
- ENGL 243 INTRODUCTION TO CLASSICAL MYTHOLOGY (3)** The study of myth in selected works from Greek and Roman literature. GenEd II.C.1. (UG)
- ENGL 244 INTRODUCTION TO FOLKLORE (3)** Forms and classification of folk expression, with emphasis on fairy tales, legends, riddles, jokes, and material folk culture. GenEd II.D. (UG)
- ENGL 245 THE CONTINENTAL SHORT STORY (3)** Study of the development of the short story in 19th and 20th century Europe. Readings include such major continental writers as Flaubert, Tolstoy, Kafka, Sartre, and Camus. Prerequisite: ENGL 102. (UG)
- ENGL 246 THE CONTINENTAL SHORT NOVEL (3)** Study of the development of the short novel ("novella") in 19th and 20th century Europe. Readings include major continental authors such as Dostoevsky, Mann, Kafka, Gide, Hesse, and Solzhenitsyn. Prerequisite: ENGL 102. (UG)
- ENGL 248 LITERATURE OF GLOBAL EXPERIENCE (3)** A study of modern literature in its cultural diversity from six continents. GenEd II.D. (UG)
- ENGL 251 APPLIED GRAMMAR (3)** Grammar, syntax, and usage for improvement of writing style. No credit toward major requirements. Prerequisite: ENGL 102. (UG)
- ENGL 261 TRADITION AND FORM IN WESTERN POETRY (3)** Elements and types of poetry in the Western tradition through readings of American, English, and European works. Emphasis on imagery, diction, sound patterns, stanzaic form, major modes and genres. GenEd II.C.1. (UG)
- ENGL 263 TRADITION AND FORM IN WESTERN FICTION (3)** Elements and types of fiction in the Western tradition through close readings of American, English, and European works, especially short stories. Emphasis on point of view, plot, character, setting, design, and theme. GenEd II.C.1. (UG)
- ENGL 265 TRADITION AND FORM IN WESTERN DRAMA (3)** Elements and types of drama in the Western tradition through close

readings of American, English and European works. Emphasis on structure, plot, character, setting, conventions, stage history. (UG)

- ENGL 270 IDEAS IN LITERATURE (3)** Thematic approach to works of American, British, and World literature. Content varies. May be repeated once. (UG)

- ENGL 283 INTRODUCTION TO IMAGINATIVE WRITING (3)** Theories and technical considerations pertinent to writing poetry and fiction, with discussion of student writing. Prerequisite: ENGL 102. GenEd I.E. (UG)

- ENGL 290 HONORS SEMINAR IN LITERATURE (3)** Small group discussion and analysis of selected works from the Western tradition. Content varies. May be repeated once. Prerequisite: Admission to the Honors College or consent of instructor. Special permit required. GenEd II.C.1. (UG)

Upper Division

- ENGL 310 WRITING ARGUMENT (3)**

Establishing, defending, and arguing an opinion, focusing on structure, claims, evidence, and warrants. Prerequisite: ENGL 102. (UG)

- ENGL 311 WRITING POETRY (3)** Nature of the creative process and art of imaginative expression in writing short fiction. Prerequisite: ENGL 102. GenEd I.E. (UG)

- ENGL 312 WRITING FICTION (3)** Nature of the creative process and art of imaginative expression in writing short fiction. Prerequisite: ENGL 102. GenEd I.E. (UG)

- ENGL 313 ADVANCED COMPOSITION (3)** Emphasizes expository writing within an academic setting. Priorities include organizational support for claims, correct usage, and effective style, using conventional academic models. Prerequisite: 2 ENGL courses. GenEd I.D. (UG)

- ENGL 315 CREATIVITY AND STYLE IN NON-FICTION (3)** Emphasizes the creative use of language, using the traditional literary essay as the model for personal expression and exploration of the human experience. Prerequisite: 2 ENGL courses. GenEd I.D. (UG)

- ENGL 316 WRITING ABOUT LITERATURE (3)** Composition of the literary essay, its structure and style. Emphasis on explication, character, plot and thematic analysis of poetry, fiction and drama. Prerequisite: ENGL 102. GenEd II.D. (UG)

- ENGL 317 WRITING FOR BUSINESS AND INDUSTRY (3)** Standard written formats used in business and industry, including correspondence, memoranda, and reports. Projects individualized to meet student needs and career interests. Prerequisite: 2 ENGL courses. GenEd I.D. (UG)

- ENGL 318 ADVANCED INFORMATIONAL WRITING (3)** Researching and writing professional documents, including reports, manuals, and technical publications. Projects individualized to meet student needs and interests. Prerequisite: ENGL 102. GenEd I.D. (UG)

- ENGL 321 [511] MEDIEVAL BRITISH LITERATURE (3)** Emphasis on the mystical writers, *Piers Plowman*, the *Gawain*-poet, and Arthurian literature. Prerequisite: 2 ENGL courses. (UG & G)

- ENGL 322 [512] BRITISH MEDIEVAL AND RENAISSANCE DRAMA (3)** Development of the drama, excluding Shakespeare, with emphasis on plays by Marlowe, Kyd, Jonson, Ford, and Webster. Prerequisites: 2 ENGL courses. (UG & G)

- ENGL 323 [513] BRITISH RENAISSANCE LITERATURE (3)** Cultural and political backgrounds with emphasis on Skelton, Wyatt, Surrey, Spenser, Sidney, Raleigh, and Lodge. Prerequisites: 2 ENGL courses. (UG & G)

- ENGL 324 [514] BRITISH LITERATURE OF THE LATER RENAISSANCE (3)** Major intellectual and literary currents of 1600-1660 in the poetry of Donne, Herbert, Marvell, Jonson, and Milton, and the prose of Bacon, Browne, Burton, and Hobbes. Prerequisites: 2 ENGL courses. (UG & G)

- ENGL 325 EIGHTEENTH-CENTURY BRITISH LITERATURE (3)** Social and intellectual backgrounds, literary trends, and significant authors, such as Swift, Pope, Fielding, Johnson, and Boswell, with emphasis on satire. Prerequisites: 2 ENGL courses. (UG & G)

- ENGL 326 [516] LITERATURE OF THE BRITISH ROMANTIC PERIOD (3)** Major writers such as Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats from 1790 to 1830 with emphasis on the philosophical and social backgrounds. Prerequisites: 2 ENGL courses. (UG & G)

- ENGL 327 THE VICTORIAN AGE (3)** Main currents of British literature and society, 1830-1901, with emphasis on Tennyson, Browning, Arnold, Carlyle, Ruskin, Dickens, and Eliot. Prerequisites: 2 ENGL courses. (UG)

- ENGL 331 [517] AMERICAN DRAMA (3)** American drama from the Colonial Period to the present, with emphasis on twentieth-century plays

- by O'Neill, Williams, Miller, Bullins, and Wilder. Prerequisite: 2 ENGL courses. (UG & G)
- ENGL 336 POST-COLONIAL LITERATURE** Literature of colonized peoples from the beginning of colonization to the present. Focus may be on one area of the world such as Africa or the Caribbean. Prerequisites: 2 English courses. 3 credits.
- ENGL 341 [518] HISTORY AND LITERATURE OF THE OLD TESTAMENT (3)** The chief books of the Old Testament and the Apocrypha studied from a literary and historical point of view. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 342 [519] FOLKLORE AND LITERATURE (3)** How and why literary artists draw plots, characters, themes, and motifs from traditional folk narratives. Distinctions between folk and literary tales. Focus on literary versions of classic fairy tales by such writers as Perrault, Baum, Coover, Carter, Yolen, and Sexton. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 343 [543] MYTH AND LITERATURE (3)** Literary reinterpretations of themes and figures from Greek and Roman mythology. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 344 [544] THE CONTINENTAL NOVEL (3)** A study of major continental novels in translation. Emphasis will be upon related and comparative elements in the novels of writers of France, Germany, Italy, and other European countries. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 345 PERSPECTIVES IN WORLD DRAMA (3)** A study of drama, the perspective to vary. Approaches may include Greek drama and its adaptation to the European stage; Oriental, Indian, African theatre; comparative drama; the genre as developed in various cultures. May be re-elected once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 346 [546] MODERN DRAMA (3)** British, American, and European plays, with attention to playwrights such as Ibsen, Strindberg, Chekov, Shaw, Pirandello, Brecht, Sartre, and Beckett. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 347 WORLD LITERATURE WRITTEN IN ENGLISH (3)** Literature originally published in English from Africa, Indian Australia, New Zealand, Canada, and the West Indies. Mainly twentieth-century fiction, poetry, and drama. Prerequisites: 2 ENGL courses. (UG)
- ENGL 350 [550] COMPARATIVE GRAMMAR (3)** Study of English grammar: traditional, structural, transformational. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 351 [501] HISTORICAL LINGUISTICS (3)** An introduction to language typology and Indo-European philology; historical development of linguistics up to the twentieth century. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 352 [502] STRUCTURAL LINGUISTICS (3)** A study of the developments in linguistic theory in the twentieth century; major figures De Saussure, Sapir, Bloomfield, Trubetzkoy, Chomsky. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 353 [503] HISTORY OF AMERICAN ENGLISH (3)** Origins and history of American dialects; development of elements of vocabulary, sounds, and grammar which distinguish American English, standards of American English. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 361 LITERARY RESEARCH AND APPLIED CRITICISM (3)** Bibliography and research methods and critical approaches to literature, with emphasis on the formalistic, social, psychological, and archetypal. Prerequisites: 2 ENGL courses. (UG)
- ENGL 363 FILM AND LITERATURE (3)** Comparative examination of the complex relationships between film and literature. Prerequisites: 2 ENGL courses. (UG)
- ENGL 370 SPECIAL TOPICS: LITERATURE OF WOMEN (3)** Selected works by and/or about women, with emphasis on themes, issues, or genres. Content varies. May be re-elected once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 371 WOMEN POETS: THEMES AND IMAGES (3)** Development of a distinctive body of poetry by British and American women including Browning, Dickinson, Plath, and Rich. Emphasis on twentieth century American poets and historical background. Prerequisites: 2 ENGL courses. (UG)
- ENGL 372 WOMEN WRITERS (3)** Development of women's literary traditions in the work of nineteenth- and twentieth-century British and American women, including Austen, Cather, Woolf, and Lessin g. Prerequisites: 2 ENGL courses. (UG)
- ENGL 373-79 THEMES IN LITERATURE (3)** Thematic approach to selected works of American, British, and World literature. Content varies. May be re-elected once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 417-419 TOPICS IN WRITING (3)** Specialized topics for writers of non-fiction, fiction and poetry. Content varies. May be re-elected once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 420 [520] DEVELOPMENT OF THE BRITISH NOVEL: EIGHTEENTH CENTURY (3)** Georgian fiction and its social background, especially works by Defoe, Richardson, Fielding, Smollett, Sterne, and Austen. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 421 [521] DEVELOPMENT OF THE BRITISH NOVEL: NINETEENTH CENTURY (3)** Mainly Victorian fiction and its social background, especially works by Scott, the Brontes, Thackeray, Dickens, Eliot, and Hardy. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 422 [522] DEVELOPMENT OF THE BRITISH NOVEL: TWENTIETH CENTURY (3)** Modern fiction and its social background, especially works by Joyce, Lawrence, Woolf, Forster, Waugh, and Greene. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 423 [523] MODERN BRITISH POETRY (3)** Emphasis on Hopkins, Hardy, Yeats, Auden, Spender, Sitwell, Thomas, and Larkin. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 425 [525] CHAUCER (3)** Major poems, especially *The Canterbury Tales* and *Troilus and Criseyde*. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 427 [527] SHAKESPEAREAN COMEDY (3)** Shakespeare's development as a poet and dramatist in the comedies and romances. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 428 [528] SHAKESPEAREAN TRAGEDY (3)** Shakespeare's development as a poet and dramatist in the histories and tragedies. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 429 [529] MILTON AND THE HUMANIST TRADITION (3)** Major poetry and prose with emphasis on Milton's place in the humanist tradition. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 431 [531] LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3)** Social and political backgrounds, 1819-1860, important literary ideas, criticism, and major authors, such as Irving, Cooper, Emerson, Thoreau, Hawthorne, Melville, and Poe. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 432 [532] LITERATURE OF THE AMERICAN REALISTIC PERIOD (3)** Major writers, such as Dickinson, Twain, Crane, and James; important secondary writers; social and political backgrounds; important literary ideas and criticism, 1860-1914. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 433 [533] AMERICAN SHORT STORY (3)** Authors and schools, such as Irving, Hawthorne, Poe, Hemingway, Welty, Wright, Porter, local color writers, realists, and naturalists. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 435 [535] DEVELOPMENT OF THE AMERICAN NOVEL: NINETEENTH CENTURY (3)** Major novelists, such as Cooper, Melville, Hawthorne, Twain, Howells, James, and Crane. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 436 [536] DEVELOPMENT OF THE AMERICAN NOVEL: TWENTIETH CENTURY (3)** Major novelists, such as Wharton, Fitzgerald, Faulkner, and Ellison. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 437 [537] AMERICAN POETRY THROUGH FROST (3)** Puritan beginnings through the early twentieth century, with emphasis on Emerson, Poe, Whitman, Dickinson, and Frost. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 438 [538] MODERN AMERICAN POETRY (3)** Poetic movements from the 1920's to present, and major poets, such as Eliot, Stevens, Williams, Lowell, Plath, and Rich. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 439 MODERN WORLD POETRY (3)** International poets of the twentieth century, such as Rainer, Maria Rilke, Eugenio Montale, and Octavio Paz, and related literary movements. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 441 [541] MODERN FICTION TO WORLD WAR II (3)** Work of the modern masters of fiction, with emphasis on Proust, Mann, and Joyce. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 442 [542] MODERN FICTION SINCE WORLD WAR II (3)** Works of the significant writers -- English, American, and Continental -- o the past thirty years, including such figures as Grass, Robbe-Grillet, Solzhenitsyn, and Burgess. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 451 [551] HISTORY OF THE ENGLISH LANGUAGE (3)** Changes and reasons for the changes in grammar, sound, and vocabulary of the language from Old English to modern times. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 452 [552] STRUCTURE OF THE ENGLISH LANGUAGE (3)** A linguistic approach to sounds, forms, syntax, and usage. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 461 [561] HISTORY OF LITERARY CRITICISM (3)** Major statements literary theory from Aristotle to the present, including Horace, Sidney, Johnson, Coleridge, Eliot, and Frye. Prerequisites: 2 ENGL

courses. (UG & G)

- ENGL 462 MODERN LITERARY THEORY (3)** Intensive study of modern literary models, including Formalism, Structuralism, Deconstruction, Hermeneutics, and Feminism. Prerequisite: 2 ENGL courses. (UG & G)
- ENGL 465 [565] BRITISH AND AMERICAN PROSE (3)** Nonfictional prose, with emphasis on form and style. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 471 [571] TOPICS IN WORLD LITERATURE (3)** Authors, periods, genres, or conventions. Content varies; may be re-elected once. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 472 [572] TOPICS IN BRITISH LITERATURE (3)** Authors, periods, genres, or conventions. Content varies. May be re-elected once. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 473 [573] TOPICS IN AMERICAN LITERATURE (3)** Authors, periods, genres, or conventions. Content varies. May be re-elected once. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 475 [575] TOPICS IN LINGUISTICS (3)** Topics and issues in contemporary linguistics theory, with particular attention to recent interdisciplinary subspecialty developments: psycholinguistics, sociolinguistics, pedagogic linguistics, etc. Topics to vary. Prerequisite: One linguistics course or consent of the instructor. May be re-elected once. (UG & G)
- ENGL 476 [576] TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3)** Possible topics include women in ethnic literature, Jewish writers, the Catholic novel. Content varies. May be re-elected once. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 477 TOPICS IN BLACK AMERICAN LITERATURE (3)** Authors, periods, genres, or conventions. Content varies. May be re-elected once. Prerequisites: 2 ENGL courses. (UG)
- ENGL 485-86 [585-586] SEMINAR IN LITERARY STUDIES (3)** Intensive study of one area of British, American, or World literature, e.g., a specific author, period, school, or genre. Content varies. May be re-elected. Prerequisite: Junior standing. (UG & G)
- ENGL 490 [590] DIRECTED STUDIES IN ENGLISH (3)** Independent reading of a specific author, period, topic, problem, or school of literature. Topic selected by student in consultation with professor. May be re-elected once. Prerequisites: 18 hours in English, or 12 hours in English and 6 in a related discipline; minimum 3.00 average in English and the related discipline; consent of department chair and instructor. (UG & G)
- ENGL 494 [594] TRAVEL AND STUDY (3-6)** Places and topics to be selected by student in consultation with instructor. Prerequisites: 2 ENGL courses. (UG & G)
- ENGL 497 ENGLISH PRACTICUM (3)** Professional experience in such areas as editing, research, and tutoring directed by a member of the faculty or staff of the University. ENGL 497 and 498 may be re-elected or taken in combination for a maximum of six credits. No credit toward English major or minor. Prerequisite: Consent of English Internship/Practicum Coordinator. S/U grading. (UG)
- ENGL 498 ENGLISH INTERNSHIP (3)** On-the-job experience in research, editing, and writing in government, public relations, journalism, industry, and other professional positions. ENGL 497 and 498 may be re-elected or taken in combination for a maximum of six credits. No credit toward English major. Prerequisite: Consent of English Internship/Practicum Coordinator. S/U grading. (UG)
- ENGL 499 HONORS THESIS (4)** Intensive treatment of a topic in such areas as literary criticism, creative writing, and expository writing chosen by the student in consultation with the thesis advisor. Restricted to candidates for Honors in English. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

- ESOL 105 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES: INTERMEDIATE (3)** Advanced grammar review with emphasis on sentence and short-paragraph construction.
- ESOL 106 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES: ADVANCED (3)** Introduction to English style; emphasis on reading and writing skills, with attention to increased proficiency in conversation, as necessary. Prerequisite: ESOL 105 or permission of ESL Committee. Not open to those who have successfully completed DVWR 114.
- ESOL 107 LISTENING AND SPEAKING FOR ADVANCED ESOL STUDENTS (3)** Intensive listening and speaking practice for high intermediate and advanced students of ESOL: formal oral presentation pronunciation and conversation practice. Prerequisite: Examination or consent of professor.

ENVIRONMENTAL SCIENCE (ENVS)

Upper Division

- ENVS 471 SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE/STUDIES (3)** Quantitative investigation and solution of environmental problems. Prerequisite: Four courses in Biological, Physical, and/or Earth Sciences; two semesters of Mathematics (MATH 119 and above); and consent of instructor. (UG)

FINANCE (FIN)

Upper Division

- FIN 331 PRINCIPLES OF FINANCIAL MANAGEMENT (3)** Introductory course designed to provide the student with the fundamental concepts underlying the theory of finance. Financial markets, security, valuation, analysis of financial condition, forecasting, working capital management, capital budgeting, cost of capital, leverage, optimal capital structure, dividend policy. Prerequisite: Junior/major standing. MATH 231 or ECON 301, ACCT 201 and ACCT 202 or ACCT 205 and ACCT 206, ECON 201 or ECON 203, ECON 202. Special permit required. (UG)
- FIN 332 ADVANCED FINANCIAL MANAGEMENT (3)** In-depth financial theory and analysis in selected areas. Topic includes CAPM, cost of capital, optimal capital structure, dividend policy, capital budgeting, mergers and acquisitions, working capital management. Prerequisites: FIN 331. (UG)
- FIN 333 INVESTMENTS AND SECURITIES ANALYSIS (3)** Analysis of financial assets, including equities and fixed income instruments. Topics include securities valuation, using fundamental and technical analysis and portfolio management. Valuation of government and corporate securities, institutional factors, security analysis, portfolio management. Prerequisite: FIN 331. (UG)
- FIN 337 FINANCIAL ANALYSIS (3)** Financial statement analysis, working capital management and financial forecasting.
- FIN 341 FUNDAMENTALS OF FINANCIAL PLANNING (3)** Introductory course designed to provide the student with an overview of the financial planning process. Topics include setting client goals and objectives, investment planning, tax planning, insurance and risk management, and estate planning. Overview of personal financial planning.
- FIN 343 INSURANCE AND RISK MANAGEMENT (3)** Course covers the role of insurance as a risk management tool. Topics include the use life insurance, health insurance, and disabilities insurance to reduce a client's overall exposure to risks. FIN 341. (UG)
- FIN 345 TAX PLANNING (3)** Tax planning, individual taxation, terminology, and computation. Prerequisite: FIN 341. (UG)
- FIN 423 INVESTMENTS AND SECURITIES ANALYSIS II (3)** This course provides an in-depth analysis of fixed income securities, swaps, options, futures, and forward contracts. Analyzing financial securities determining their values and use of specific financial goals, emphasizing non-traditional securities. Prerequisites: FIN 331 and FIN 333. (UG)
- FIN 430 CAPITAL MARKETS AND MANAGEMENT OF FINANCIAL INSTITUTIONS (3)** Capital markets and financial institutions, risk management of financial institutions, asset and liability management, profitability management. Prerequisites: FIN 331, FIN 333, and FIN 423. (UG)
- FIN 433 PORTFOLIO MANAGEMENT (3)** Theory and practice in investment portfolio assembly and revision. Mathematical modeling, measurement of performance, options and futures hedging. Prerequisite: FIN 333. (UG)
- FIN 435 INTERNATIONAL FINANCE (3)** Framework of international finance including balance of payments, foreign exchange, foreign money and capital markets, and financial management of the multinational corporation. Prerequisite: FIN 331. (UG)
- FIN 439 FINANCIAL POLICY (3)** Case approach to qualitative and quantitative issues in finance. Analysis of financial condition, forecasting, asset and liabilities management, leasing, hedging, business combinations, reorganization and bankruptcy. Prerequisites: FIN 332, FIN 333, FIN 435, senior status. (UG)
- FIN 441 RETIREMENT PLANNING AND EMPLOYEE BENEFITS (3)** Course is designed to provide the student with the background necessary to assist clients in planning for their retirement. Additionally, course will provide the student with an understanding of the contributions that employee benefits plans make to achieving financial independence. Developing a systematic approach to estimating contribution plans, IRA, 401K, tax-sheltered annuities, and government programs. Prerequisite: FIN 341. (UG)

- FIN 443 ESTATE PLANNING (3)** Effects of federal tax system and other factors impacting estate planning. Prerequisite: FIN 341. (UG)
- FIN 445 ETHICAL ISSUES IN FINANCE (3)** Moral and ethical issues confronting finance professionals. Prerequisite: Junior standing. (UG)
- FIN 470 TOPICS IN FINANCE (3)** In-depth study of contemporary issues in finance. Course content varies with each topic. Prerequisite: FIN 332. (UG)
- FIN 491 SEMINAR IN FINANCE (3)** Course deals with selected areas of interest in the field of finance. Course content varies. Prerequisite: FIN 332. (UG)
- FIN 495 INDEPENDENT RESEARCH IN FINANCE (1-3)** Directed in-depth academic research in finance in a specific area of joint faculty member/student interest. May be re-elected for a maximum of 6 credits. Prerequisites: FIN 332. Minimum 2.50 cumulative QPA. Consent of instructor and Chair. Special permit. (UG)
- FIN 496 PRACTICUM IN CORPORATE FINANCE (3)** Capstone application of knowledge, skills, and attitudes through professional experience. Prerequisites: FIN 332, FIN 337, and FIN 423.
- FIN 497 INTERNSHIP IN FINANCE (3)** Students are required to work in assigned projects in business environments. Graded under S/U procedure. May be re-elected for a maximum of 6 credits. Prerequisites: FIN 331, declared CBE major with Finance Concentration. Minimum of 2.50 cumulative QPA. Consent of instructor and Chair. Special permit. [Co-op fee required] (UG)
- FIN 498 PRACTICUM IN FINANCIAL SERVICES (3)** Synthesizes essential financial planning elements of knowledge, skills and attitudes through professional experience. Prerequisites: FIN 333, FIN 341, FIN 343, FIN 345, and FIN 441. (UG)

FRENCH (FREN)

Lower Division

- FREN 101-102 FRENCH ELEMENTS I, II (3,3)** A thorough foundation in grammar, drills in pronunciation; documentary conversation; composition and translation; introduction to French culture. GenEd II.C.1. (UG)
- FREN 201-202 FRENCH INTERMEDIATE I, II (3,3)** Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings. Conducted in French. Prerequisite: FREN 101-102 or equivalent. GenEd II.C.3. (UG)

Upper Division

- FREN 301-302 FRENCH COMPOSITION AND CONVERSATION I,II (3,3)** Intensive exercises in French composition and conversation beyond the intermediate level. Conducted in French. Prerequisite: FREN 201-202 or equivalent. GenEd II.C.3. (UG)
- FREN 303 FRENCH STYLISTICS (3)** Development of writing skills with stress on language structure and important aspects of style. Conducted in French. Prerequisite: FREN 301-302 or equivalent. (UG)
- FREN 305 CONVERSATION IN FRENCH (3)** Open to non-native speakers of French who have a basic knowledge of French but need to develop oral fluency. Prerequisite: At least three years of high school French, or two years of college French, or equivalent, or consent of instructor. (UG)
- FREN 311-312 FRENCH CULTURE AND CIVILIZATION I, II (3,3)** French civilization from its origins: history, geography, institutions and the arts. Contemporary France, its geography, recent history, social, economic, political and judicial institutions. Conducted in French. Prerequisite: FREN 301-302 or equivalent. (UG)
- FREN 321-322 SURVEY OF FRENCH LITERATURE I, II (3,3)** French literature from Chanson de Roland to the present. Conducted in French. Prerequisite: FREN 201-202 or equivalent. (UG)
- FREN 331 FRENCH FOR BUSINESS (3)** Introduction to French business and economy, with practice in functional spoken and written transactions in French. Prerequisites: FREN 201-202 or equivalent or consent of instructor. (UG)
- FREN 341 FRENCH LISTENING COMPREHENSION PRACTICE (1)** Practice in understanding spoken French, using recorded interviews, conversations, new programs from French radio, television films or videotapes. Prerequisite: FREN 301 or equivalent. (UG)
- FREN 351 INTRODUCTION TO TRANSLATION: FRENCH TO ENGLISH (3)** Training in translation, principally French to English, from magazines and books from a wide variety of disciplines. Prerequisite: FREN 301-302 or equivalent. (UG)
- FREN 391 ADVANCED FRENCH GRAMMAR (3)** French syntax, idiomatic construction, word formation. Conversation, oral and written drill. Conducted in French. Prerequisites: FREN 301, 302. (UG)
- FREN 401 [501] FRENCH PHONETICS (3)** Correction of French pronunciation and analysis of spoken French based on phonological theory. Prerequisites: FREN 301-302 (UG & G)

- FREN 402 [502] APPLIED FRENCH LINGUISTICS (3)** Phonetics, morphology, syntax, points of interference. Linguistic study relating to methodology for French teachers. Prerequisite: FREN 301-302 or equivalent. (UG & G)
- FREN 411 [511] THE FRENCH NOVEL (3)** Study of the French novel and narrative techniques from the 17th century to the present day. Conducted in French. Prerequisites: FREN 321, 322 or equivalent. (UG & G)
- FREN 421 [521] FRENCH LITERATURE OF THE SEVENTEENTH CENTURY I (3)** Selected works from France's major classical writers. Conducted in French. Prerequisite: FREN 321-322. (UG & G)
- FREN 425 [525] FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (3)** Principal works of the major writers presented in their literary, sociological and philosophical context. Conducted in French. Prerequisites: FREN 321 and 322. (UG & G)
- FREN 431 [531] FRENCH LITERATURE OF THE NINETEENTH CENTURY (3)** Selected works of major writers and of literary movements: Romanticism, Realism, Naturalism and Symbolism. Conducted in French. Prerequisites: FREN 321 and 322. (UG & G)
- FREN 441 [541] FRENCH LITERATURE OF THE TWENTIETH CENTURY (3)** The evolution from fin de siècle to the present day of the novel, the theatre, and poetry as reflections of the artistic and philosophical developments leading to the modern age. Shifting emphasis from semester to semester. Conducted in French. Prerequisites: FREN 321, 322 or equivalent. (UG & G)
- FREN 461 [561] FRENCH DRAMA (3,3)** Development of the French theatre from medieval to modern times; its literature and staging, illustrated by representative plays. Shifting emphasis from semester to semester. Conducted in French. Prerequisites: FREN 321, 322. (UG & G)
- FREN 470-479 [570-579] SPECIAL TOPICS IN FRENCH (3)** Discussion of a central topic with changing emphasis from year to year. Prerequisite: FREN 321-322 or equivalent. (UG & G)
- FREN 487 TRAVEL AND STUDY ABROAD (3-16)** Study at a French University. Students will live and take courses at the University of Tours, France, Dates: February through June (1 semester). Prerequisite: Three years of college French or equivalent. Consent of Department Chair. (UG)
- FREN 491 [591] DIRECTED READINGS IN FRENCH LITERATURE (1-3)** Reserved for superior students under the guidance of a departmental advisor. Conducted in French. Prerequisite: at least three hours of literature study at the 400 level, consent of Department Chair. (UG & G)
- FREN 492 [592] DIRECTED READINGS IN FRENCH (1-3)** Similar to FREN 491 with concentration on a different subject matter. Conducted in French. Prerequisite: at least three hours of literature study at the 400 level, consent of Department Chair. (UG & G)
- FREN 493 HONORS DIRECTED READINGS (3)** Individual readings and background research under direction of a faculty member in preparation for writing an honors thesis. Prerequisite: Admission to the departmental Honors Program. (UG)
- FREN 495 INTERNSHIP FOR THE CERTIFICATE OF PROFICIENCY IN FRENCH (3)** Supervised experience in a work setting providing students the opportunity to apply their classroom learning and skills outside the academic world. Will be one semester (Fall or Spring) for which students receive three credits for eight hours of work per week. Junior or senior undergraduate students in good academic standing and who meet the requirements established for the CERTIFICATE OF PROFICIENCY IN FRENCH should apply to the membership during the month of November for the Spring semester and during the month of April for the Fall semester. Prerequisite: Open only to students who are enrolled in the Certificate of Proficiency Program in French and who have complied with the program regulations. Written consent of Department Chair and Coordinator of the Program. (UG)
- FREN 497 INTERNSHIP IN FRENCH (3)** This program is designed to give training and experience using French in working with the government, business and industry in Maryland or Washington, D.C. under professional supervision. Prerequisites: Junior or Senior standing French majors (professional track) only, and completion of at least 27 credits above 300-level courses. Written consent of coordinator of program. (UG)
- FREN 499 HONORS THESIS IN FRENCH (3-6)** Writing of an honors thesis based on individual research. Open only to advanced honors candidates. Prerequisites: Honors Directed Readings. (UG)

GENERAL STUDIES (GENL)

Lower Division

- GENL 117-118 HINDI ELEMENTS I, II (3,3)** A thorough foundation in grammar; drills in pronunciation; elementary vocabulary; reading; compositions and translation. (UG)

GENL 121 PERSONAL LIFE AND CAREER PLANNING (2) To enable students to understand their role in the world of work, develop a sense of career directionality and maturity, explore concepts related to successful career choice, begin to take action toward achieving satisfactory life planning, in the context of a decision making format. (UG)

GENL 196 SELECTED TOPICS IN GENERAL STUDIES (1-3) Study of a topic in a specialized area to be selected by the instructor and student. Each topic must be approved by the Curriculum Committee. Prerequisite: Permission of the Associate Dean. (UG)

GENL 198 PHILOSOPHY OF GENERAL STUDIES (3) An introduction to the concepts of a liberal education through readings, lectures, and discussions. Prerequisite: Must be taken simultaneously with GENL 199. (UG)

GENL 199 PRACTICUM IN GENERAL STUDIES (3) Life experiences in the major areas of a liberal education -- museums, theatre, historical landmarks, concerts, etc. Prerequisite: Must be taken simultaneously with GENL 198. (UG)

GENL 241 THE ETHNIC EXPERIENCE IN AMERICA (3) The course will focus on Baltimore's ethnic groups as a microcosm of American society, and will examine the interaction of ethnic communities (Black, Jewish, Italian, Greek, Eastern-European, Irish, and others) in Baltimore. The interdisciplinary approach will use the talents of social scientists, community representatives, and public school personnel as consultants and guest lecturers. (UG)

Upper Division

GENL 401 [501] TOPICS IN SOCIAL SCIENCE (3) Issues and problems to be selected by the instructor and studied from the multiple approaches of various social sciences. Prerequisite: 15 hours in the social sciences. (UG & G)

GENL 411 [511] CREATIVE METHODS OF SOLVING PROBLEMS WORKSHOP (3) The theory and practice of creative problem solving techniques. Analysis and practical application of creative processes with attention to skills in data gathering, problem, analysis, idea production, solution evaluation, and strategy development for implementation. Individual and small group work will be employed. Prerequisites: PSYC 101 or EDUC 445 or GENL 203 or consent of instructor. (UG & G)

GENL 421 [521] INTERDISCIPLINARY WORKSHOP IN ASIAN STUDIES (3) Intensive study of a chosen region of Asia, including its physical environment, historical development, government, society, culture, and their interrelationship. An interdisciplinary team of faculty experts will participate, and the region of Asia will vary according to demand. Prerequisite: Approval of coordinator. (UG & G)

GEOGRAPHY (GEOG)

Lower Division

GEOG 101 PHYSICAL GEOGRAPHY (3) Introductory spatial analysis of fundamental terrestrial natural phenomena, including their impact on humanity. Emphasis on Earth planetary motions, weather and climate, landforms, soils, and vegetation. Prerequisite: None. GenEd II.A.1. (UG)

GEOG 102 WORLD REGIONAL GEOGRAPHY (3) Survey of world regions identifying geographical features and area and their significance. Prerequisite: None. GenEd II.D. (UG)

GEOG 105 GEOGRAPHY OF INTERNATIONAL AFFAIRS (3) An introductory survey of the changing political map of the world with special emphasis on a geographical comprehension of the major regions of international cooperation and conflict. GenEd II.D. (UG)

GEOG 109 INTRODUCTION TO HUMAN GEOGRAPHY (3) Uses the analytical approach of social sciences in the study of institutions of human society to reveal spatial patterns in the responses of people to basic problems and needs. GenEd II.C.2. (UG)

GEOG 110 HONORS INTRODUCTION TO HUMAN GEOGRAPHY (3) Uses the analytical approach of social sciences in the study of institutions of human society to reveal spatial patterns in the responses of people to basic problems and needs. Emphasis on discussion and analyses of problems. Prerequisite: Honors status. GenEd II.C.2. (UG)

GEOG 221 INTERPRETATION OF MAPS (3) Introduction to map elements and map interpretation; study of various types of maps, index systems, and general application of maps in geography. (UG)

GEOG 251 INTRODUCTION TO PLANNING (3) The sequential origins of planning and urban design, a study of contemporary planning practice, and an analysis of the social, economic and political context of plan formulation and implementation. (UG)

GEOG 270-279 TOPICS IN PLANNING AND GEOGRAPHY (3) Investigation of various geographic and planning issues. Emphasis on

analytical skills through readings and research design. Topics to be announced. (UG)

GEOG 299 INTRODUCTION TO SOURCE MATERIALS AND RESEARCH IN GEOGRAPHY (3) Designed to provide the student with a basic working knowledge of research materials; study and review of principal reference literature, journals, and other sources of data used in geographic field and library research. Students may be required to do field work. (UG)

Upper Division

Systematic Courses

GEOG 315 GEOMORPHOLOGY (4) Detailed analysis of the formation, surficial characteristics and global distributions of the earth's landforms. Labs emphasize interpretation of landform assemblages through use of topographic maps and aerial photographs. Cannot be taken for credit by students who have received credit for PHSC 222 or GEOG 371. Prerequisite: Six hours of geography and/or geology including either GEOG 101 or PHSC 121. (UG)

GEOG 317 [502] ENERGY RESOURCES (3) Spatial patterns of traditional and alternative forms of energy will be analyzed. The many facets of the energy problem will be analyzed including physical deposits, economic variables, public policy implication, and geographical patterns. Prerequisite: 6 hours of Geography or consent of instructor. (UG & G)

GEOG 319 [503] SOILS AND VEGETATION (3) A resource study of the world's soils and plant formations with emphasis placed upon their genesis and spatial differentiations. Prerequisite: 6 hours of Geography, CHEM 101, BIOL 110 or 205. (UG & G)

GEOG 329 MEDICAL GEOGRAPHY (3) A study of health problems viewed as imbalances in the interrelationships between humans and elements of their environment, both the physical and cultural. Emphasis is placed on gaining an overview of the field through a comprehension of the application of geographic principles and techniques to the study of human health problems. Prerequisite: Six hours of geography or consent of instructor. (UG)

GEOG 351 [509] URBAN DESIGN (3) The physical planning process at the immediate, perceptual level. The relation of environment and behavior is explored, different urban areas are analyzed and a short design problem will be assigned. Prerequisite: GEOG 101-102 or consent of instructor. (UG & G)

GEOG 355 [510] HISTORICAL GEOGRAPHY OF URBANIZATION (3) Spatial and temporal development of urbanization and urban morphology from the rise of civilization in the ancient Near East to the contemporary post industrial city. The entire scope of urban functions is surveyed, with the emphasis on the city as a human-made environment. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 357 [511] CULTURAL GEOGRAPHY (3) Study of origins and diffusion of cultures and the resulting impact in creating the world's contrasting cultural landscapes. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 359 [512] ECONOMIC GEOGRAPHY (3) Designed to explain the location of economic activities through a series of principles and theories. Emphasis is on the various sectors of the economy, transportation, and economic development. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 363 [513] SPATIAL ORGANIZATION OF ECONOMIC ACTIVITY (3) Provides an intermediate level coverage of the organization of the economy of space. Draws from basic regional economics to illustrate and explain the geographical patterns of land use, industry, service activities, and regional patterns of economic development. Prerequisite: Six hours of geography including GEOG 359. (UG & G)

GEOG 371 [514] ADVANCED PHYSICAL GEOGRAPHY (4) Detailed analysis of characteristics, distribution, and geographical significance of the earth's landforms. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 373 [515] CLIMATOLOGY (3) Character, causes, and distribution of climatic types. Emphasis upon world patterns. Students may be required to do field work. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 375 [516] QUANTITATIVE METHODS IN GEOGRAPHY (3) Focus on statistical problems associated with the analysis of geographic data. Emphasis on the unique spatial problems of point pattern analysis, area association, and regionalization. Prerequisite: Six hours of geography, or consent of instructor. (UG & G)

GEOG 377 [517] DESCRIPTIVE METEOROLOGY (4) An introduction to the various meteorological elements. Emphasis is placed on the interaction of temperature, pressure, wind, and moisture in creating

weather patterns. Three hours of lecture and two hours of laboratory. Field work may be required. Prerequisite: Six hours of Natural Science or Geography or the equivalent. (UG & G)

GEOG 381 [519] POLITICAL GEOGRAPHY (3) Effect of political groupings upon human use of the world, and the influence of the geographic base upon political power. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 383 NATURAL RESOURCES AND SOCIETY: A GEOGRAPHIC PERSPECTIVE (?) Social and environmental dimensions of natural resources, their management, and misuse from a geographic perspective. Prerequisites: ENGL 102, 6 hours of Geography. (2nd writing course)

GEOG 385 [520] POPULATION GEOGRAPHY (3) General population theory, data sources for population geographers, and the processes of fertility, mortality, and migration. Patterns of population growth and change viewed from both temporal and geographical perspectives. Prerequisite: Six hours of Geography or consent of instructor. (UG & G)

GEOG 391 [522] URBAN SYSTEMS (3) Survey of the structure, functions, forms and development of urban units. Emphasis upon the locational features of social, economic, and cultural phenomena. Field work. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 393 TRANSPORTATION AND INFRASTRUCTURE PLANNING (3) Transportation, water supply, wastewater treatment, and solid waste management systems. Their role in the growth and development of urban areas. Policies, programs, and infrastructure planning. Prerequisite: GEOG 391 or consent of instructor. (UG)

GEOG 401 [551] GROWTH OF GEOGRAPHIC THOUGHT (3) History, nature, and methodology of geography as a discipline. Analysis of schools of geographic thought: critical evaluation of important geographic work. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 405 [553] COMPREHENSIVE PLANNING (3) The integration of separate urban systems into the comprehensive design of an urban region. Special emphasis will be placed on neighborhood, community and town planning. Field work may be required. Prerequisite: GEOG 391 or equivalent and consent of instructor. (UG & G)

GEOG 407 THE GEOGRAPHY OF THE AGED (3) The aged have emerged in contemporary society as a significant minority group. Elements responsible for the increase in the numbers of older Americans will be examined as well as the forces affecting the distribution of the aged. Particular emphasis will be given to the locational problems of older people in urban areas. Prerequisite: Six hours of geography or consent of instructor. (UG)

GEOG 409 APPLIED CLIMATOLOGY (3) The effects of world climatic patterns on the human and physical environment are analyzed. Special emphasis is devoted to the interactions between climate and the urban environment. Field work necessary when taken for graduate credit. Prerequisite: GEOG 373, GEOG 377 or consent of instructor.

GEOG 410 ENVIRONMENTAL GEOGRAPHY (3) Energy, water, and mass budgets at the surface of the earth. Prerequisites: GEOG 101 and 3 additional credits of geography. (UG)

GEOG 411 [557] STUDIES IN NATURAL HAZARDS (3) The nature, frequency of occurrences, and distribution of environmental hazards and their impacts on humans. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 415 [559] GEOGRAPHICAL ASPECTS OF POLLUTION (3) A systematic study of the spatial aspects of air and water pollution, with special emphasis on pollution in the Greater Baltimore area. Field trips will be conducted to pollution sites and pollution control agencies within the local area. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 417 OUTDOOR RECREATION AND PLANNING MANAGEMENT (3) A study of outdoor recreation in terms of relationships of people, land, and leisure. Emphasis on the principles of planning, designing, and maintaining outdoor recreation areas and facilities. Prerequisite: Six hours of geography or consent of instructor. (UG)

GEOG 484 LAND USE PLANNING (3) Contemporary land use planning emphasizing the problematic nature of land development, the environmental land use planning process, and related growth management, issues and techniques. Prerequisite: GEOG 251 or consent of instructor. (UG)

Technique Courses

GEOG 321 [504] INTERPRETATION OF AERIAL PHOTOGRAPHS (3) Reading and interpretation of aerial photographs. The application of the aerial photograph in the fields of geography, geology, and photogrammetry. (UG & G)

GEOG 323 [505] CARTOGRAPHY AND GRAPHICS I (3) Study in design, construction, and effective application of maps and charts for analysis and

publications; practical exercises in the use of cartographic tools, materials, and techniques. (UG & G)

GEOG 324 [506] CARTOGRAPHY AND GRAPHICS II (3) Continued exercises in map graphics and areal distribution maps. New techniques in presentation of graphic data and spatial relationships. Prerequisite: GEOG 323. (UG & G)

GEOG 341 [508] TECHNIQUES AND MATERIALS FOR GEOGRAPHY TEACHERS (3) A systematic review of geographic concepts in relation to interdisciplinary studies in the physical and social sciences. Examination of the content of geography and problems of presentation. (UG & G)

GEOG 412 [518] INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (3) Hardware and software for the storage, retrieval, manipulation, analysis, and display of data, emphasizing raster-based geographic information systems. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 414 [523] GIS APPLICATIONS (3) Vector-based GIS software for solving real world problems. Prerequisite: GEOG 412 or consent of the instructor. (UG & G)

GEOG 416 PRINCIPLES OF REMOTE SENSING AND DIGITAL IMAGE PROCESSING (3) Obtaining quantitative information from remotely sensed images; visual and automated techniques in study of spatial and environmental relationships. Prerequisite: Six hours of geography or consent of instructor. (UG)

Regional Courses

GEOG 420 [560] GEOGRAPHY OF ANGLO AMERICA (3) Physical and cultural landscapes of the United States and Canada including patterns of economic development of each region and their relationship to their environmental setting. Prerequisite: Six hours of geography or consent of instructor.

GEOG 423 [561] GEOGRAPHY OF MARYLAND (3) Physical and human geographical elements of the Maryland landscape which explain current patterns and environmental problems. Particular emphasis on historical geographical background of the present landscape. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 424 HISTORICAL GEOGRAPHY OF ATLANTIC CANADA (3) The development of the Atlantic Provinces is followed through to the period of Confederation in 1867 with an emphasis on the pivotal role the area played in the geopolitical interests of France and Britain in North America. Prerequisite: Six hours of geography or consent of instructor. (UG)

GEOG 431 [562] GEOGRAPHY OF AFRICA (3) A systematic and regional approach to the study of people and environment of Africa, south of the Sahara. Special focus is placed on the distribution of natural resources and the historical-political development of each country as important background for the understanding of current African affairs. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 443 [564] GEOGRAPHY OF EAST ASIA (3) Regional studies of the physical and cultural foundations in China, Japan, and Korea. Emphasis upon human and economic resources, and role in world affairs. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 445 GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3) Regional studies of the physical and cultural foundations of India, Pakistan, Sri Lanka, Philippines, and Indonesia. Principal human and economic resources, problems of development, and role in world affairs. Prerequisite: Six hours of geography or consent of instructor. (UG)

GEOG 447 [565] GEOGRAPHY OF THE MIDDLE EAST (3) Analysis of Southwest Asia and North Africa, including major natural and cultural resources, related patterns of spatial organization, economic and political development, and associated problems. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 448 CONFLICT IN IRELAND (3) An analysis of attempted and proposed solutions to the Irish conflict based on physical and cultural elements of the island's historical geography. Prerequisite: Six hours of geography or consent of instructor. (UG)

GEOG 451 [566] GEOGRAPHY OF EUROPE (3) Regional analysis and appraisal of the human geography and natural resources of Europe. Problems of nationality, economic development, and cultural conflicts. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 453 [567] GEOGRAPHY OF THE FORMER USSR (3) Physical and cultural patterns and their bearing on the former Soviet Union as a world power. Regional distribution and use of natural and human resources in agriculture and industry. Problems in economic development and production. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 461 [568] GEOGRAPHY OF LATIN AMERICA (3) Analysis of Latin America focuses on the interrelationships between physical and cultural elements which provide a diversity of human habitats throughout the region. Prerequisite: Six hours of geography or consent of instructor. May be repeated for a maximum of 6 credits. (UG & G)

Seminars And Special Courses

GEOG 470-479 [570-579] SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3) Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 481 ENVIRONMENTAL IMPACT ANALYSIS (3) The collection, collation, analysis, and incorporation of physical, social, biological, and economic information for the reviewing and the preparing of environmental impact statement (EIS) reports. Prerequisite: Six hours of geography or consent of instructor. (UG)

GEOG 491 [582] GEOGRAPHY/ENVIRONMENTAL PLANNING INTERNSHIP (1-6) Supervised placement and research in selected public and private agencies at appropriate institutions. May be repeated up to a maximum of six credits. Prerequisite: Consent of Chair and six hours in geography. May be repeated for a maximum of 6 credits. (UG & G)

GEOG 493 [583] FIELD GEOGRAPHY (2-6) Practical laboratory experience in techniques in the collection and analysis of data by observations, measurements, mapping, and photographic records. Such techniques are to be applied to selected geographic problems. Prerequisite: Six hours of geography or consent of instructor. (UG & G)

GEOG 494 [584] TRAVEL AND STUDY (3-6) Countries and topics to be selected by departments and instructors sponsoring the program. For complete information contact the Chair of the department. Prerequisite: Consent of instructor. May be repeated for a maximum of 6 credits. (UG & G)

GEOG 495 [585] DIRECTED READING IN GEOGRAPHY (3) Independent reading in selected areas of geography. Open by invitation of the geography department to students taking a major or minor in geography. Prerequisite: 15 hours in geography and a minimum average of 3.0 in geography. May be repeated for a maximum of 6 credits. (UG & G)

GEOG 496 [586] INDEPENDENT STUDY IN GEOGRAPHY (1-6) Independent research, study, or field experience under supervision of a member of the Geography faculty. Designed for advanced students who wish to conduct independent investigations on aspects of Geography which are of special interest or not covered in other courses. Registration arranged with department chairperson. Prerequisite: Advanced undergraduate standing with at least 18 hours of geography or graduate standing. May be repeated for a maximum of 6 credits. (UG & G)

Graduate Division

See TU *Graduate School Catalog* for course descriptions.

GEOLOGY (GEOL)

Lower Division

GEOL 111 ENVIRONMENTAL GEOLOGY (4) This course provides a general introduction to geologic principles within the context of the availability and occurrence of economically important earth materials; water movement in and on the earth; and geologic hazards. Not recommended for science or geography majors. Three hours lecture and two hours laboratory per week. Field trips may be required. Not open to students who have successfully completed PHSC 111. GenEd II.A.1. (UG)

GEOL 121 PHYSICAL GEOLOGY (4) Composition and structure of the earth; the internal and external forces acting upon it and the surface features resulting. Laboratory studies of common rocks and minerals, geologic and topographic maps and aerial photographs. Field trips required. Three lecture hours and two laboratory hours per week. Not open to students who have successfully completed PHSC 121. GenEd II.A.1. (UG)

GEOL 123 HISTORICAL GEOLOGY (3) The history and development of the continents and ocean basins, and the evolution of life on earth, will be discussed based upon information obtained from the sedimentary rock record. Field trips required. Two hours of lecture and two hours of laboratory per week. Not open to students who have successfully completed PHSC 123. GenEd II.A.1. (UG)

Upper Division

GEOL 321 [521] STRUCTURAL GEOLOGY (4)

This course involves the identification and analysis of tectonic forms to determine the physical conditions of formation and the context of historical geological events in which they occur. Prerequisite: GEOL 121 and PHYS 211 or equivalent. Not open to students who have successfully completed PHSC 321. (UG&G)

GEOL 323 GEOMORPHOLOGY (4) Detailed analysis of the formation, surficial characteristics, and global distribution of the earth's landforms. Labs emphasize interpretation of landform assemblages through use of topographic maps and aerial photographs. Cannot be taken for credit by students who have received credit for GEOL 222 or GEOG 371 or GEOG 315, and not open to students who have successfully completed PHSC 323. Prerequisites: Six hours of geography and/or geology courses, including either GEOG 101 or GEOL 121. (UG)

GEOL 331 [531] MINERALOGY (4) The study of minerals with emphasis on crystallography, crystal chemistry, and chemical-structural classification. Laboratory identification of minerals both in hand specimen and thin section by application of principles of optical mineralogy. Three lecture hours and two hours laboratory. Not open to students who have successfully completed PHSC 331. Prerequisite: GEOL 121; CHEM 101. (UG&G)

GEOL 333 [533] PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS (4) Study of the properties and genesis of two major rock groups. Megascopic and microscopic techniques in rock classification. Environments of formation. Three lecture hours and two hours laboratory. Not open to students who have successfully completed PHSC 333. Prerequisite: GEOL 331. (UG&G)

GEOL 357 [557] PHYSICAL OCEANOGRAPHY (3) Physical, chemical, and geologic characteristics of ocean basins, boundaries, and sea water including origin and behavior of waves and currents. Prerequisites: PHYS 211 or 241 and CHEM 101, or consent of instructor. Not open to students who have successfully completed PHSC 357. (UG&G)

GEOL 415 [515] HYDROGEOLOGY (4) Geologic aspects of groundwater: origin, occurrence, and movement. Not open to students who have successfully completed PHSC 415. Prerequisites: CHEM 102; PHYS 212 or PHYS 242. Recommended: GEOL 321 and GEOL 443. (UG&G)

GEOL 441 [541] OPTICAL MINERALOGY AND PETROGRAPHY (3) This course includes the theory and application of polarized light and elements of crystallography in the analysis of rock forming minerals by use of a petrographic microscope. Not open to students who have successfully completed PHSC 441. Prerequisite: GEOL 333 (UG&G)

GEOL 443 [543] SEDIMENTOLOGY AND STRATIGRAPHY (4) Processes by which sediments are produced, transported and deposited. Analysis of sediments and sediments and sedimentary bodies for the development facies models useful in interpretation of the stratigraphic record. Offered Fall semester alternate years. Two hours of laboratory and two hours of lecture per week. Not open to students who have successfully completed PHSC 443. Prerequisite: GEOL 121, CHEM 101. (UG&G)

GEOL 451 PETROLOGY OF SEDIMENTARY ROCKS (3) Macro- and microscopic analysis of sedimentary rocks. Classifications and diagenetic processes. Offered Spring semester alternate years. Prerequisite: GEOL 433. (UG)

GERMAN (GERM)

Lower Division

GERM 101-102 GERMAN ELEMENTS I, II (3,3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1. (UG)

GERM 111 ELEMENTARY GERMAN CONVERSATION (1) Drill of common spoken German phrases. Prerequisite: GERM 101 or equivalent. (Not open to students who have completed GERM 202 or above.) (UG)

GERM 201-202 GERMAN INTERMEDIATE I, II (3,3) Review of grammar; conversation and prose composition; reading of texts of cultural value. Conducted in German. Prerequisite: GERM 101-102 or equivalent. GenEd II.C.3. (UG)

Upper Division

GERM 301-302 COMPOSITION AND CONVERSATION I, II (3,3) Composition and conversation beyond the intermediate level. Conducted in German. Prerequisite: GERM 201-202 or equivalent. GenEd II.C.3. (UG)

GERM 303 GERMAN STYLISTICS (3) Development of writing skills with stress on language structure and important aspects of style. Prerequisite: GERM 301-302 of the equivalent. (UG)

- GERM 311 CULTURE AND CIVILIZATION (3)** A brief survey of the history, geography, and institutions of Germany. Conducted in German. Prerequisite: GERM 201-202 or equivalent. (UG)
- GERM 321 SURVEY OF GERMAN LITERATURE (3)** German literature from the eighteenth century to the present. Conducted in German. Prerequisite: GERM 201-202 or equivalent. (UG)
- GERM 331 GERMAN FOR BUSINESS (3)** Vocabulary and phraseology of German business correspondence for active and passive use in a business environment. Prerequisite: GERM 201-202 or equivalent. (UG)
- GERM 341 READINGS IN CONTEMPORARY GERMAN (3)** Reading and comprehension of non-literary texts. Prerequisite: GERM 201-202 or consent of instructor. (UG)
- GERM 391 ADVANCED GERMAN GRAMMAR (3)** German syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Conducted in German. Prerequisite: GERM 301-302. (UG)
- GERM 401 GERMAN PHONETICS (3)** Pronunciation and drills in contemporary German, conducted in German. Prerequisite: GERM 301-302 or equivalent. Not open to native speakers of German.
- GERM 427 [527] GERMAN CLASSICISM (3)** Goethe, Schiller, Lessing and others. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)
- GERM 431 [531] ROMANTICISM (3)** German literature during the Romantic era (1790-1830). Hoelderlin, Novalis, Brentano, Tieck, Grillparzer. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)
- GERM 441 [541] MODERN GERMAN LITERATURE (3)** The modern masters: Kafka, Mann, Hesse, Rilke, Brecht. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)
- GERM 442 [542] GERMAN LITERATURE SINCE 1945 (3)** Themes and movements since World War II. Poetry: Eich, Enzensberger, Cean, Bachmann; prose fiction: Boell, Grass; drama: Borchert, Duerrenmatt, Frisch. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)
- GERM 461 [561] GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES (3)** The development of modern German drama in the successive literary movements, beginning with Kleist. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)
- GERM 465 [565] GOETHE'S FAUST (3)** A study of the background, themes and structures of this masterpiece. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)
- GERM 470-479 [570-579] SPECIAL TOPICS IN GERMAN (3)** Discussion of a central topic with changing emphasis from year to year. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)
- GERM 481 [581] THE GERMAN NOVELLE (3)** The theory and development of the Novelle in German literature from Goethe to the present. Conducted in German. Prerequisite: GERM 321 or equivalent. (UG & G)
- GERM 491-492 [591-592] DIRECTED READINGS IN GERMAN (1-3)** Reserved for superior students under the guidance of a departmental advisor. Content related to student's previous program. Prerequisite: at least three hours of study at the 400 level, consent of Department Chair. (UG & G)
- GERM 494 TRAVEL STUDY ABROAD (3-16)** Study at university or institute in Germany, Austria, or Switzerland. Must be approved by Department Chair. Prerequisite: German 202 or equivalent. (UG)
- GERM 495 INTERNSHIP FOR THE CERTIFICATE OF PROFICIENCY IN GERMAN (3)** Supervised experience in a work setting providing students the opportunity to apply their classroom learning and skills outside the academic world. Will be one semester (Fall or Spring) for which students receive three credits for eight hours of work per week. Junior or Senior undergraduate students in good academic standing who meet the requirements established for the CERTIFICATE OF PROFICIENCY IN GERMAN should apply for the internship during the month of November for the Spring semester and during the month of April for the Fall semester. Prerequisite: Open only to students who are enrolled in the Certificate of Proficiency Program in German and who have complied with the program regulations. Written consent of Department Chair and Coordinator of the Program. (UG)
- GERM 497 INTERNSHIP IN GERMAN (3)** This program is designed to give training and experience using German in working with the government, business and industry in Maryland or Washington, D.C. under professional supervision. Prerequisite: Junior or Senior standing German majors (professional track) only, and completion of at least 27 credits above 300 level courses. Written consent of coordinator of program. (UG)

GREEK (GRK)

Lower Division

- GRK 101-102 ELEMENTS OF MODERN GREEK I, II (3, 3)** A thorough foundation in grammar; drills in pronunciation; elementary conversation and composition; introduction to Greek culture. GenEd II.C.1. (UG)
- GRK 103-104 ANCIENT GREEK ELEMENTS I-II (3-3)** Ancient Greek grammar structure and vocabulary related to modern languages. Prerequisites: None. GenEd II.C.1. (UG)

HEBREW (HEBR)

Lower Division

- HEBR 101-102 ELEMENTS OF HEBREW I, II (3, 3)** An introduction to Hebrew. Speaking, reading, and writing, the development of conversational ability, free composition, and translation from English to Hebrew. GenEd II.D. (UG)
- HEBR 201-202 HEBREW INTERMEDIATE I, II (3, 3)** A continued review of grammatical structure with emphasis on conversational and reading fluency. Vocabulary building, composition and reading and discussion of selected outside readings. Prerequisite: HEBR 101-102. GenEd II.D. (UG)
- HEBR 205 CONTEMPORARY HEBREW LITERATURE (3)** Survey of selected short stories in English translation from the time of the csars in Russia to Israel today. Prerequisite for course: None. (UG)

Upper Division

- HEBR 301-302 HEBREW COMPOSITION AND CONVERSATION I-II (3-3)** Intensive exercises in Hebrew composition and conversation beyond the intermediate level. Conducted in Hebrew. Prerequisite: HEBR 201-202 or equivalent or consent of instructor. GenEd II.D. (UG)
- HEBR 391 READINGS IN MODERN HEBREW LITERATURE (3)** The reading and literature analysis of selected short stories by the major writers of Hebrew literature in Israel today. Conducted in Hebrew. Prerequisite: HEBR 201-202 or equivalent or consent of instructor. (UG)

HINDI (GENL)

- GENL 117-118 HINDI ELEMENTS (3, 3)** A thorough foundation in grammar; drills in pronunciation; elementary vocabulary; reading; compositions and translations. (UG)

HISTORY (HIST)

Lower Division

- HIST 101 INTRODUCTION TO ANCIENT CIVILIZATION (3)** Political, social, economic, and intellectual forces which shaped the pattern of Near Eastern and European life from the Stone Age through the decline of the Roman Empire. GenEd II.C.1. (UG)
- HIST 107 INTRODUCTION TO HISTORY OF ISLAMIC CIVILIZATION (3)** Survey of the history and culture of the Islamic peoples from Muhammed to the present. Emphasis on the Arabic nations. GenEd II.D. (UG)
- HIST 109 INTRODUCTION TO THE CIVILIZATION OF INDIA (3)** Development of the culture of South Asia from earliest times and the emergence of the present nations of Bangladesh, Pakistan, Indian, and Sri Lanka (Ceylon). GenEd II.D. (UG)
- HIST 115 INTRODUCTION TO EAST ASIAN CIVILIZATIONS: CHINA AND JAPAN (3)** A survey of the historical development of Chinese and Japanese civilization focusing on institutional, political, cultural and social patterns. (UG)
- HIST 121 LATIN AMERICA: COLONIAL PERIOD (3)** Political, economic, and social developments in Portuguese and Spanish America from the pre-Columbian period to the movements for independence. GenEd II.D. (UG)
- HIST 122 LATIN AMERICA: NATIONAL PERIOD (3)** Struggle for political, economic, and social stability; international relations and cultural patterns in the development of independent Latin America in the nineteenth and twentieth centuries. GenEd II.D. (UG)
- HIST 135 AFRICAN HISTORY AND CULTURE (3)** Sub-Saharan Africa: including the evolution of traditional societies into Western-influenced states, supported by archaeological, anthropological, ecological, geographical, literary, artistic and musical evidence. (UG)
- HIST 145 HISTORY OF THE UNITED STATES TO THE MID-NINETEENTH CENTURY (3)** Political, economic, social, and cultural forces which shaped the pattern of life in the United States from the

founding of the colonies to 1865. GenEd II.B.1. (UG)

HIST 146 HISTORY OF THE UNITED STATES SINCE THE MID-NINETEENTH CENTURY (3) Continuation of HIST 145 from 1865 to the present. GenEd II.B.1. (UG)

HIST 151 THE WORLD SINCE 1945 (3) Major historical developments in the post WWII era including postwar diplomacy, the Cold War in Europe and Asia, nationalism, the Mideast problem, the Vietnam war, East-West detente, the nuclear arms race, and political and economic problems in the Third World. GenEd II.D. (UG)

HIST 211 CHRISTIANITY FROM JESUS TO LUTHER (3) Social historical survey of Christian doctrine and institutions from Jesus through Luther and Galileo. (UG)

HIST 241 HISTORY OF EUROPEAN CIVILIZATION THROUGH THE SEVENTEENTH CENTURY (3) Political, social, economic, and intellectual forces which shaped the pattern of European life from post-Roman times through the seventeenth century. GenEd II.C.1. (UG)

HIST 242 HISTORY OF EUROPEAN CIVILIZATION FROM THE SEVENTEENTH CENTURY (3) Political, social, economic, and intellectual forces which shaped the pattern of European life from the seventeenth century to the present. GenEd II.C.1. (UG)

HIST 243 HONORS HISTORY OF EUROPEAN CIVILIZATION FROM THE SEVENTEENTH CENTURY (3) Political, socio-economic, and intellectual trends in Europe since the Seventeenth Century; emphases on class discussion and student research appropriate to an Honors College. (UG)

HIST 275 THE HISTORY OF ANCIENT ISRAEL (3) Survey of the history and culture of the Israelites from Moses to the second Jewish revolt under Bar-Kokhba in 135 C.E. (UG)

HIST 277 A SURVEY OF JEWISH HISTORY (3) Political, cultural, and socio-economic experiences of world Jewry from the Diaspora to the present. Emphasis on the nineteenth and twentieth centuries. (UG)

Upper Division

HIST 300 INTRODUCTION TO HISTORICAL STUDY (3) Survey of historical writings, the theory of history, introduction to research. Prerequisite: ENGL 102 or ENGL 190. (UG)

HIST 301 [501] ANCIENT NEAR EASTERN CIVILIZATIONS (3) Civilizations of Mesopotamia and Egypt and the peripheral developments in Syria-Palestine and Asia Minor. Prerequisite: HIST 101 or consent of instructor. (UG & G)

HIST 303 [503] HELLENISTIC CIVILIZATION (3) The civilization that arose in the Mediterranean Basin after the conquests of Alexander and the Roman Empire within this context. Prerequisite: HIST 101 or consent of instructor. (UG & G)

HIST 304 [504] ANCIENT GREEK CIVILIZATION (3) The civilization of classical Greece, including the Minoan and Mycenaean bronze age antecedents, to 362 B.C. Prerequisite: HIST 101 or consent of instructor. (UG & G)

HIST 305 [505] ROMAN CIVILIZATION (3) The civilization of ancient Rome from the foundation of the city to the collapse of the Roman empire in the West. Prerequisite: HIST 101 or consent of instructor. (UG & G)

HIST 306 [506] WOMEN IN 20th CENTURY U.S. HISTORY (3) Multicultural perspective on politics, work, family and sexuality in women's lives. Prerequisite: HIST 146 or WMST 231 or consent of instructor. (UG & G)

HIST 307 THE ANDEAN REPUBLICS (3) Economic, social, and political developments in Peru, Bolivia, and Ecuador from independence to the present. Prerequisite: 6 credits of History, or 3 credits in Latin American History. (UG)

HIST 311 [509] TRADITIONAL INDIA: ITS HISTORICAL DEVELOPMENT (3) Development of the history and culture of India from prehistoric times until the beginnings of European dominance in the eighteenth century. Prerequisite: Six credits in history or consent of instructor. (UG & G)

HIST 312 [510] HISTORY OF MODERN INDIA (3) History of the Indian subcontinent since 1750, stressing the rise of British power, the colonial experiences, the development of nationalist movements, and the problems of independence in present-day Indian, Pakistan, and Bangladesh. Prerequisite: Six credits in history or consent of instructor. (UG & G)

HIST 313 [511] HISTORY OF MODERN SOUTHEAST ASIA (3) Development of Burma, Thailand, Malaysia, Indonesia, Cambodia, Vietnam and the Philippines since 1500 with emphasis on the colonial experience and development of modern nationhood. Prerequisite: Six credits in history or consent of instructor. (UG & G)

HIST 315 [512] IMPERIAL CHINA: THE LAST DYNASTY (3) Ching (Qing) dynasty, 1644-1912; focus on the nineteenth century collision of

imperial China and the West. Prerequisite: HIST 111 or six credits of history. (UG & G)

HIST 316 [513] REVOLUTIONARY CHINA (3) The on-going Chinese revolution from the overthrow of the imperial government and through the Nationalist and Communist periods. Prerequisite: Six credits of history or consent of instructor. (UG & G)

HIST 318 MODERN KOREA (3) Korea in the 19th and 20th centuries, including Japanese colonial control, postwar division, the Korean War, and the political and economic development of North and South Korea. Prerequisite: HIST 110 or 111 or 6 credits in History.

HIST 319 JAPAN, 1830 TO 1930 (3) Japan's transition from feudalism and national seclusion to emergence of a modern nation-state with overseas empire and a parliamentary form of government. (UG) Prerequisite: Six credit hours of HIST or consent of instructor.

HIST 320 JAPAN, 1930 TO PRESENT (3) Japan's transition from militarism and foreign aggression in the 1930s to postwar pacifism, democracy and dynamic economic growth. Prerequisite: Six credit hours of HIST or consent of instructor. (UG)

HIST 321 [521] HISTORY OF MEXICO: PRE-COLUMBIAN AND COLONIAL (3) Political, economic, social, and cultural developments from early pre-Columbia civilizations to the movement for independence. Prerequisite: Six credits in lower-division history. (UG & G)

HIST 322 [522] HISTORY OF MEXICO: NATIONAL PERIOD (3) Political, economic, social, and cultural developments from independence to the present. Prerequisite: Six credits in lower-division history. (UG & G)

HIST 324 [507] DEMOCRATIZATION IN LATIN AMERICA (3) Analysis of the failures and successes in building democratic political institutions in Latin America; emphasis on 1930s-present. Not open to those who have completed HIST 484 in Fall, 1993. Prerequisite: HIST 122 or permission of the instructor.

HIST 328 HISTORY OF EAST AFRICA FROM 1820 TO PRESENT (3) Multiculturalism on the Swahili coast with emphasis on social stratification, religion, women, and family. Prerequisite: HIST 134 or consent of instructor. (UG)

HIST 329 HISTORY OF SOUTH AFRICA (3) Social and cultural change in South Africa from early times to present. Prerequisite: HIST 134 or consent of instructor. (UG)

HIST 331 AMERICAN MILITARY HISTORY 1898-1945 (3) Campaigns, tactics, and institutional development of the armed forces in peace and war, seen in the context of politics and diplomacy; emphasis on World War II. Prerequisite: HIST 146. (UG & G)

HIST 332 AMERICAN MILITARY HISTORY SINCE 1945 (3) Campaigns, tactics, and institutional development of the armed forces in peace and war, seen in the context of politics and diplomacy; emphasis on Korea and Vietnam. Prerequisite: HIST 146. (UG & G)

HIST 345 [533] THE AMERICAN COLONIES: 1492-1763 (3) Founding and the political, economic, and social development of the American colonies. Prerequisite: HIST 145 or HIST 241 or consent of instructor. (UG & G)

HIST 346 [534] THE AMERICAN REVOLUTIONARY PERIOD: 1763-1789 (3) From the end of the Seven Years' War to the ratification of the Constitution. Prerequisite: HIST 1435 or HIST 241 or consent of instructor. (UG & G)

HIST 347 [535] THE EARLY NATIONAL PERIOD (3) The United States from the Constitutional Convention to the Election of 1820. The Federalist Decade and the Jeffersonian Era. Prerequisite: HIST 145. (UG & G)

HIST 348 [536] THE JACKSONIAN ERA (3) The United States from 1815 to 1845; political, social, and economic currents of the period. Prerequisite: HIST 145. (UG & G)

HIST 349 [537] THE CIVIL WAR (3) Sectionalism, the coming of the war, and the war years. Emphasis on political, economic, and social issues. Prerequisite: HIST 145. (UG & G)

HIST 350 [538] THE ERA OF RECONSTRUCTION (3) Political, economic, and social study of the Reconstruction era, the war years to 1877, and its aftermath. Prerequisite: HIST 145. (UG & G)

HIST 351 [539] THE U.S. 1865-1901: AGE OF ENTERPRISE (3) Industrialization of the United States, the rise of big business and an examination of resulting problems in economic, social and political life. Prerequisite: HIST 145 or HIST 146. (UG & G)

HIST 352 [540] THE U.S. 1892-1920: AGE OF REFORM (3) America's efforts to deal with the political, social, and economic problems of industrial life; emphasis on the Populist movement; imperialism and the Spanish-American War, the administrations of Theodore Roosevelt, William Howard Taft, and Woodrow Wilson. Prerequisite: HIST 145 or HIST 146. (UG & G)

- HIST 359 [541] THE F.D.R. ERA (3)** History of the United States from the 1920's through World War II, with emphasis on the presidential years of Franklin D. Roosevelt. Prerequisite: HIST 146. (UG & G)
- HIST 360 [542] RECENT AMERICAN HISTORY: 1945-1975 (3)** History of the United States from World War II through the mid 1970's, including political, social, economic, and diplomatic developments. Prerequisite: HIST 146. (UG & G)
- HIST 363 [544] SOCIAL HISTORY OF THE UNITED STATES TO 1865 (3)** American life to the Civil War, focusing on social structure, mobility, race, ethnicity, family, roles of women, religious and educational institutions, community, and popular culture. Prerequisite: HIST 145. (UG & G)
- HIST 364 [545] SOCIAL HISTORY OF THE UNITED STATES SINCE 1865 (3)** American life from the Civil War, focusing on social structure, mobility, race, ethnicity, family, roles of women, religious and educational institutions, community, and popular culture. Prerequisite: HIST 146. (UG & G)
- HIST 366 [546] A HISTORY OF AMERICAN BUSINESS (3)** Study of industry, finance, commerce and agriculture from the Civil War to the present. Prerequisite: Three credits in history and either consent of instructor or junior standing. (UG & G)
- HIST 367 [547] THE DEVELOPMENT OF THE U.S. CONSTITUTION: 1787-1941 (3)** Intellectual and political influences which produced the Constitution of 1787, the struggle between national supremacy and state sovereignty up to the Civil War, and the development of the new judicial review after 1870. Prerequisite: HIST 145 and HIST 146. (UG & G)
- HIST 368 [548] THE BILL OF RIGHTS AND THE CONSTITUTION: 1941 TO THE PRESENT** Interpretation of the Bill of Rights before and after the Western Court. Prerequisite: HIST 146. (UG & G)
- HIST 370 [550] DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3)** Continuation of HIST 369 to the present with added interest in the emergence of the United States as a major world power. The role of the United States in modern warfare, world wide economic and financial affairs, overseas expansion, the diplomatic impact of conflict in ideologies, and current international crisis. Prerequisite: HIST 145 or HIST 146. (UG & G)
- HIST 373 [551] EARLY AMERICAN FRONTIER (3)** The westward movement and the effect of the frontier process on social, economic, and political institutions of the United States and the attitudes of the American people to 1850. Prerequisite: HIST 145. (UG & G)
- HIST 374 [552] THE FAR WESTERN FRONTIER (3)** Expansion into the Trans-Mississippi West and the impact of the frontier process on the attitudes of the American people and on the social, economic, and political institutions of the United States in the nineteenth and twentieth centuries. Prerequisite: HIST 146. (UG & G)
- HIST 375 [553] THE CITY IN AMERICAN HISTORY (3)** Development of the American city and its impact on society, culture, ethnicity, race relations, the roles of women, economics and politics. Prerequisite: 3 credits in United States history. (UG & G)
- HIST 378 INMIGRANTS AND IMMIGRATION IN THE UNITED STATES (3)** Comparative social, cultural, and economic history of selected ethnic groups and their relationship to the dominant culture. Emphasis on the late nineteenth and twentieth centuries. Prerequisite: Three credits of United States HIST or consent of instructor. (UG)
- HIST 379 [555] HISTORY OF NATIVE AMERICANS: THE EAST (3)** Topical and regional ethnohistory of the native peoples of Eastern America, and their relations with non-native peoples and governments, precontact to the present. Prerequisite: Three credits in American history. (UG & G)
- HIST 380 [556] HISTORY OF NATIVE AMERICANS: THE WEST (3)** Topical and regional ethnohistory of the native peoples of Western America and their relations with non-native peoples and governments, precontact to the present. Prerequisite: 3 credits of American history. Not open to those who have completed Indian-White Relations in American History. (UG & G)
- HIST 381 [563] AFRICAN-AMERICAN HISTORY TO THE MID-NINETEENTH CENTURY (3)** The political, economic and social history of African-Americans from their African origins through the antebellum period. Prerequisite: HIST 145. (UG & G)
- HIST 382 [564] AFRICAN-AMERICAN HISTORY FROM THE MID-NINETEENTH CENTURY (3)** The political, economic and social history of African-Americans from the Civil War through the Civil Rights Era. Prerequisite: HIST 146.
- HIST 384 LIFE HISTORIES OF AFRICAN WOMEN (3)** Methodological historical analysis of lives of selected African women from diverse African cultures compared with the lives of women throughout the world. Prerequisite: 6 hours from History and/or Women's Studies. (G)
- HIST 385 [558] AMERICAN LABOR (3)** The changing nature of agricultural, domestic, and industrial work; business-labor relations; labor unions and leaders; role of labor in mainstream and radical political movements. Emphasis on the late nineteenth and twentieth centuries. Prerequisite: HIST 146 or three credits in economics. (UG & G)
- HIST 391 [559] HISTORY OF CANADA (3)** Canadian history with emphasis on the period since 1867. Particular attention will be given to the problems of cultural dualism and confederation. Prerequisite: HIST 145 or HIST 146 or HIST 242 or POSC 101. (UG & G)
- HIST 397 [560] HISTORY OF MARYLAND FROM COLONIAL TIMES TO THE PRESENT (3)** Major events and forces that have shaped the political, social, cultural, and economic development of Maryland. Prerequisite: Three credits in United States history. (UG & G)
- HIST 401 [567] THE EARLY MIDDLE AGES: 300-1050 (3)** The rebuilding of Europe after the collapse of the Roman Empire. Emphasis on the Church Fathers, the Germanic tribes, Carolingian culture, Feudalism and the Vikings. Prerequisite: HIST 241 or HIST 211 or consent of instructor. (UG & G)
- HIST 402 [568] THE HIGH MIDDLE AGES: 1050-1350 (3)** The flowering of medieval culture. Emphasis on the role of the Church, the emergence of the national monarchies of western Europe, and the creation of towns and universities. Prerequisite: HIST 241 or HIST 211 or consent of instructor. (UG & G)
- HIST 403 [569] THE RENAISSANCE ERA: 1300-1500 (3)** Political, economic, social, and cultural changes in late medieval and Renaissance Europe. Prerequisite: HIST 241 or HIST 211 or consent of instructor. (UG & G)
- HIST 404 [570] THE REFORMATION: 1500-1648 (3)** Religious, political, economic, and social changes in Reformation and Counter Reformation Europe. Prerequisite: HIST 241 or HIST 211 or consent of instructor. (UG & G)
- HIST 406 [572] EUROPE: 1815-1914 (3)** Major economic, political, social, and intellectual currents of the period. The effects of the industrial revolution, the development of nationalism and imperialism, and the origins of World War I. Prerequisite: HIST 242. (UG & G)
- HIST 415 [576] DIPLOMATIC HISTORY OF EUROPE: 1815-1939 (3)** A study in depth of specific diplomatic crises, with emphasis upon the impact of each upon the European Balance of Power. Prerequisite: HIST 242. (UG & G)
- HIST 416 BRITISH HISTORY: 1760-1902 (3)** Political change and transformation of British government from George III until emergence from Splendid Isolation. Explores growth of the imperial system. Prerequisite: HIST 242. (UG)
- HIST 420 [579] EUROPEAN IDEAS: FRENCH REVOLUTION TO THE PRESENT (3)** Religious, scientific, political, and social theories of the European intellectual class seen in their historical context from the French Revolution to the present. Prerequisite: HIST 242 or consent of instructor. (UG & G)
- HIST 421 [580] GREAT BRITAIN IN THE TWENTIETH CENTURY (3)** Political, social, and economic developments in Great Britain from 1897 to the present with emphasis on social reform, the two World Wars, Socialism and the Labor Party, economic decline, the dismantling of the Empire, and entry into the European community. Prerequisite: HIST 201 or HIST 202 or HIST 242. (UG & G)
- HIST 427 [527] EUROPEAN MILITARY HISTORY: 1871-1925 (3)** Minor wars of 1871-1913, build-up to World War I, the War and its Aftermath, seen in the context of diplomatic, political, and socio-economic history. Not open to students who have completed HIST 413. Prerequisite: HIST 242 or consent of the instructor.
- HIST 429 [529] EUROPEAN MILITARY HISTORY: 1925-1945 (3)** Military institutions of the Interwar Period, build-up to World War II, the European War, seen in the context of diplomatic, political, and socio-economic history. Not open to students who have completed HIST 413. Prerequisite: HIST 242 or consent of the instructor. (UG)
- HIST 431 [581] FRANCE: 1763-1871 (3)** Old Regime and the impact of successive revolutions upon French society. Emphasis upon the role of France in the growth of European liberalism and nationalism. Prerequisite: HIST 242. (UG & G)
- HIST 441 [582] GERMANY: 1871-1945 (3)** Brief topical analysis of the nineteenth century background. Concentration on the Bismarckian Empire, Weimar Republic, and the Third Reich, emphasizing the interrelationships between internal developments and Germany's role in Europe and the world. Prerequisite: HIST 242. (UG & G)
- HIST 452 [584] RUSSIA/SOVIET UNION: 1894-1953 (3)** Political, ideological, economic, and cultural factors influencing the fall of the monarchy, the Bolshevik Revolution, Leninism, and Stalinism. Prerequisite: HIST 231 or 242 or consent of instructor. (UG & G)

HIST 453 [585] HISTORY OF SOVIET RUSSIA SINCE STALIN: 1953 TO PRESENT (3) Topical analysis of political history and theory, economic development, foreign affairs, social changes, and cultural and literary trends. Prerequisite: HIST 151 or 231 or 242 or consent of instructor. (UG & G)

HIST 454 [589] THE FOREIGN POLICY OF THE SOVIET UNION (3) An examination of the twin pillars of Soviet foreign policy since 1917: international Marxism and the defense of Mother Russia. Prerequisite: HIST 151 or HIST 231 or HIST 452 or HIST 453 or POSC 432 or consent of instructor. (UG & G)

HIST 477 [586] EUROPE IN THE THIRD WORLD: COLONIALISM TO CRISIS (3) Impact of modern European Colonialism on the societies of the Third World, chiefly Africa and Asia. Primary emphasis on the nineteenth and twentieth centuries. Prerequisite: HIST 242 or consent of instructor. (UG & G)

HIST 478 HISTORY OF TERRORISM SINCE THE MID-NINETEENTH CENTURY (3) Ideology, organization, operation of terrorist groups, world-wide, including anarchists, Russian revolutionaries, mass political parties with terrorist wings, the Klan, and Middle Eastern groups. Prerequisite: 6 credit hours of history or consent of the instructor. (UG)

HIST 479 [587] A HISTORY OF DIPLOMACY (3) Evolution from its origins to the present with emphasis on the modern period. Historic changes which shifting ideologies and new technologies have wrought in the role of the diplomat. Prerequisites: HIST 241 and HIST 242. (UG & G)

HIST 481 [588] HISTORY OF MANAGEMENT (3) Theory, organization, and operation of selected political, religious, military, economic, and social institutions of the western world. Prerequisite: Three credits in history and either consent of instructor or Junior standing. (UG & G)

HIST 482 [590] INTERPRETIVE PROBLEMS IN HISTORY (3) In-depth study of historical interpretations of selected topics; may be repeated in a different topic for a total of six credits. Prerequisite: Twelve credits in history appropriate to topic. (UG & G)

HIST 483 [591] BIOGRAPHICAL STUDIES IN HISTORY (3) Study of selected historical figures who have shaped or reflected the past. Figures to be selected by the instructor; may be repeated in different historical figures for a total of six credits. Prerequisite: Six credits in history appropriate to topic. (UG & G)

HIST 484 [592] HISTORICAL THEMES (3) Study through lectures and discussions of a historical topic selected by the instructor; may be repeated in a different topic for a total of six credits. Prerequisite: Six credits in history appropriate to topic. (UG & G)

HIST 486 HISTORY SEMINAR (3) Research and writing in a specific period and area of history to be selected by the instructor; may be repeated in a different topic for a total of six credits. Prerequisites: Consent of instructor and fifteen credits in history including HIST 290. (UG)

HIST 487 [596] COLLOQUIUM (3) Group discussion of reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with broad periods, topics, problems or comparative developments selected by the instructor(s); may be repeated in a different topic for a total of six credits. Prerequisites: Consent of instructor and fifteen credits in history or nine credits in history and six credits in the related discipline. (UG & G)

HIST 493 INTERNSHIP (3-6) Experience designed to combine the research and content of history with work in historical libraries, museums, archival depositories, and similar agencies. No more than six credits to be earned with any one agency; may be repeated for a total of six credits. Prerequisites: Twenty-seven credits in history and consent of Department Chair. Graded under S/U procedure. (Not for Graduate Credit.) (UG)

HIST 494 [594] TRAVEL AND STUDY (3-6) Countries and topics to be selected by the Departments and instructors sponsoring the program. For complete information, write the Chair of the Department early in the fall of the academic year preceding the semester of intended study; may be repeated in different countries and topics for a total of six credits. Prerequisites: Upper division status and consent of instructor. (UG & G)

HIST 496 [593] DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student; considerable attention to methodology; may be repeated for a total of six credits. Prerequisites: Fifteen credits in history and a minimum average of 3.0 in history and consent of instructor and Department Chair. (UG & G)

HIST 497 [597] DIRECTED READING (2-4) Independent reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with specific periods, topics, problems or comparative developments selected by the student in consultation with the instructor(s); may be repeated for a total of six credits. Prerequisites: Fifteen credits in history or nine credits in history and six credits in the related discipline and a minimum average of 3.0 in history and the related discipline and consent of Department Chair. (UG & G)

HIST 498 HONORS DIRECTED READINGS (2-4) Independent reading in history or related disciplines on a topic selected by the student in consultation with the instructor(s); may be repeated for a total of 6 credits. Prerequisite: Admission to the Departmental Honors Program. (UG)

HIST 499 HONORS THESIS (4-8) Research and the writing of a thesis, to be directed by a faculty member in a chosen area of specialization. Prerequisite: Admission to Departmental Honors Program. (Not for Graduate Credit.) (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

HEALTH SCIENCE (HLTH)

Lower Division

HLTH 101 WELLNESS FOR A DIVERSE SOCIETY (3) Health promotion, disease prevention and health lifestyles; analysis of personal attitudes and behaviors. GenEd I.B.3.

HLTH 103 EMC, FIRST AID & SAFETY (3) Emergency intervention designed for people who may have to give first aid, advanced life support or cardiopulmonary resuscitation for the course of their daily lives. Standard certification will be by the American Heart Association. Safety awareness will be explained. (UG)

HLTH 204 NUTRITION AND WEIGHT CONTROL FOR THE CONSUMER (3) Using consumer models this course presents elements of nutrition, weight control and fitness. Prerequisite: HLTH 101. (UG)

HLTH 207 HEALTH CARE IN THE U.S. (3) Analysis of the demand, cost supply and health care recipient, analysis of different health care settings and factors such as professionalism, the professional education system, authority structures, ethical responsibilities, and referrals. Emerging policy debate and role of managed care also explored. GenEd I.B.3.

HLTH 208 MENTAL HEALTH, STRESS MANAGEMENT AND CRISIS INTERVENTION (3) Emphasis is on helping relationships, constructive communication, stress and stressful-life-events, various approaches to handling crisis situations and an overview of the mental health services system. Prerequisite: HLTH 101. (UG)

HLTH 210 FOUNDATIONS OF HEALTH EDUCATION & HEALTH BEHAVIOR I (3) Analyzes that historical foundations, educational concepts, developmental life stages, principles and philosophies that form the basis for health education in community and school settings. Prerequisite: HLTH 101. (UG)

HLTH 215 FOUNDATIONS OF HEALTH EDUCATION AND HEALTH BEHAVIOR II (3) Analysis of the role and impact of the health educator and health agencies on health behavior in community and school settings. Prerequisite: HLTH 210 or consent of instructor. (UG)

HLTH 221 SEXUALITY IN A PLURALISTIC SOCIETY (3) Covers the multifaceted components of human sexuality including historical influences, religious influences, moral development and values, sexual practices and alternate behaviors, healthy behaviors and sex-related diseases. GenEd I.B.3.

HLTH 225 WEIGHT CONTROL: THEORY AND PRACTICE (3) The theoretical and the practical aspects of losing, gaining, or maintaining weight. Recent medical and behavioral literature will be reviewed. Opportunities will exist in class to make application of the theories. Prerequisite: HLTH 101 or permission of instructor. (UG)

Upper Division

HLTH 305 COMMUNITY HEALTH ADMINISTRATION (3) A survey of current approaches to the theories, practices and organization of community health services administration. Offered every other year. Prerequisite: HLTH 215. (UG)

HLTH 311 CHRONIC AND COMMUNICABLE DISEASE (3) A factual, non-clinical approach to the major chronic and communicable diseases that are health problems in the United States population today. Patient education methods and the role of the health education in relation to these diseases will be stressed. Prerequisite: HLTH 101, BIOL 110 (BIOL 315 strongly recommended). (UG)

HLTH 315 CURRICULUM AND PLANNING (3) In-depth analysis of the planning process for both community and school settings. Prerequisite: SCED 341. GenEd II.D. (UG)

HLTH 321 CRISIS INTERVENTION (3) Various crisis situations and approaches to intervention in handling these situations will be covered in the course. Examples of specific crisis concerns that will be dealt with are: drugs, sex, death, suicide, handicaps, mental illness, diseases, and family and peer groups. Prerequisite: HLTH 101 or consent of instructor. (UG)

HLTH 331 NUTRITION FOR HEALTH PROFESSIONALS (3) An in-depth study of chemical nature and utilization of nutrients; the composition, digestion, absorption of foods, and the normal nutritional

requirements of the human body. The focus of the course will be on nutrition and health, and nutrition and disease. Prerequisite: CHEM 101, BIOL 110, or consent of instructor. (UG)

HLTH 387 STUDENT TEACHING IN SECONDARY EDUCATION--SCHOOL HEALTHY (6) (UG)

HLTH 388 STUDENT TEACHING IN SECONDARY EDUCATION--SCHOOL HEALTH (12) (UG)

HLTH 401 [501] TEACHING ABOUT DRUGS AND SEX (3) Consent, procedures and methods for presenting sensitive subjects including human sexuality and drugs. Prerequisite: HLTH 101, or HLTH 221, HLTH 325, PSYC 101, BIOL 110. (UG & G) Not open to law enforcement majors.

HLTH 405 [505] DRUGS IN OUR CULTURE (3) An in-depth review of harmless, harmful, useful and useless substances which may affect behavior or mood: the interaction of psychological, sociological and physiological components included. Prerequisite: HLTH 101. (UG & G)

HLTH 411 [511] HEALTH AND LATER MATURITY--THE AGING PROCESS (3) An approach to the conservation of human resources with emphasis on understanding attitudes and practices related to health in later maturity. Designed for students with a personal or professional interest in the field. Prerequisite: Six hours of health and/or behavioral science or consent of instructor. (UG & G)

HLTH 421 FIELD WORK IN COMMUNITY HEALTH (6) Practical experience in participation in community health situations. Total number of credits accumulated may not exceed 8. Designed for dual concentration. Graded under S/U procedure. Prerequisite: HLTH 315 and 425; upper-division Health elective. (UG)

HLTH 422 FIELD WORK IN COMMUNITY HEALTH (12) Practical experience in participation in community health situations. Total number of credits accumulated may not exceed 14. Designed for community health concentration. Graded S/U procedure. Prerequisite: HLTH 315 and 425; upper-division Health elective. (UG)

HLTH 425 INSTRUCTIONAL METHODS IN HEALTH EDUCATION (3) Focuses on methods used in community and school settings emphasizing instructional techniques used for adolescents and adults. Prerequisite: HLTH 315.

HLTH 425 METHODS IN ELEMENTARY SCHOOL HEALTH EDUCATION (2) Focuses on instructional methods used in the delivery of health education in elementary schools. Prerequisites: ELED 311 and SCED 341.

HLTH 430 ORGANIZATION, IMPLEMENTATION AND MANAGEMENT OF HEALTH EDUCATION PROGRAMS (3) Focuses on techniques for managing health programs in school and community settings. Prerequisite: HLTH 315. (UG)

HLTH 432 MEASUREMENT AND EVALUATION IN HEALTH EDUCATION (3) Focuses on the elements of courses and program evaluation design in health education including data collection, instrument and test development, techniques for analyzing health courses/program data and writing evaluation reports. Prerequisites: have passed functional reading and writing test. HLTH 315. (UG)

HLTH 435 EPIDEMIOLOGICAL BASIS OF DISEASE AND ENVIRONMENTAL HEALTH (3) An examination of the epidemiological investigation principles, chronic and communicable disease, pollution, housing sanitation and their interrelationships. Prerequisite: BIOL 110, HLTH 101, consent of instructor. (UG)

HLTH 441 [541] LEGAL AND ETHICAL ISSUES IN HEALTH ADMINISTRATION (3) Examines legal and ethical issues in the administration of health programs. Emphasis is placed on the impact of cost-containment efforts, quality and malpractice concerns, profit-seeking in health, biomedical advances, and new delivery mechanisms. Prerequisite: consent of instructor.

HLTH 451 [551] ECOLOGICAL ASPECTS OF HEALTH (3) An examination of the interrelationship between man and his environment. Emphasis is placed upon health aspects of pollution, housing, sanitation, radiation, behavioral disorders and epidemiology. Prerequisite: BIOL 110; HLTH 101 or consent of instructor. (UG & G)

HLTH 470-479 [570-579] HEALTH WORKSHOPS (3) For teachers, administrators, and individuals concerned about health related fields. Contemporary health aspects are considered with emphasis on implementation of positive behavior aimed at improving the health of the individual and the community. Enrollment is limited to 25. Prerequisite: HLTH 101 or consent of instructor. (UG & G)

HLTH 491 [591] HEALTH DIRECTED READINGS (1-3) Independent reading in health or related disciplines. Prerequisite: A minimum of 12 credits in health and consent of department chair. (UG & G)

HLTH 494 [594] TRAVEL AND STUDY (3) An examination of various types of health care delivery in the countries and cities visited in comparison with that of the United States. For complete information

contact chair of the department. Prerequisite: HLTH 101 or consent of instructor. (UG & G)

HLTH 495 [595] INDEPENDENT STUDY (3) Directed study on specific problems in health and related fields. Prerequisite: Consent of department chair and 12 hours in health. (UG & G)

HLTH 497 PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION (1) Provides students with the opportunity to select and work with faculty members in their areas of teaching and research expertise. Students select a faculty member who they will assist in conducting a projects. Students will complete a written summary of their professional development experience. Prerequisite: consent of instructor. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

INTERDISCIPLINARY STUDIES (IDHS, IDIS, IDLA and IDNM)

IDHS 110 INFORMATION UTILIZATION IN THE HEALTH

PROFESSIONS (3) Introduction to how information is identified, stored, accessed, verified, utilized and conveyed. (UG)

IDIS 101 INTRODUCTION TO LESBIAN AND GAY STUDIES (3) Interdisciplinary and cross-cultural examination of homosexualities, institutionalized homophobia, gay and lesbian culture and communities, and gay and lesbian political activism. GenEd II.C.3. (UG)

IDIS 460-469 INTERNSHIP IN INTERDISCIPLINARY STUDIES (3) Supervised experience in work setting to facilitate student's understanding of his/her concentration. May be repeated for up to six credits. Can be applied toward major requirements only with approval of concentration's coordinator. (UG)

IDIS 470-479 SPECIAL TOPICS (3) Survey of literature and practical application of interdisciplinary issues. Field work may be required. Topics will vary. May be repeated in different topic for maximum of 9 credits. S/U grading. (UG)

IDLA 101 USING INFORMATION EFFECTIVELY IN THE SOCIAL

SCIENCES (3) Obtaining, evaluating, and presenting social science information; critical thinking, problems of inference, search and analysis skills (using computerized databases, Internet, statistical software), and communication skills. Recommended for those who major in the social or behavioral sciences. GenEd I.B. (UG)

IDNM 101 TOWSON TRANSITION COURSE: USING INFORMATION EFFECTIVELY IN SCIENCE (3) Introduction to information processing, problem solving techniques, creative thinking skills, communication skills, team building, and professional ethics in a scientific environment. Emphasis will be placed on the use of information technology to retrieve, filter, process, and evaluate data and information. This course is intended for freshman CONAMS students. Not open to students who have already received credit for Information and Technology for Business. Five contact hours. GenEd I.B.

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

INSTRUCTIONAL TECHNOLOGY (ISTC)

Lower Division

ISTC 101 UTILIZATION OF LIBRARY RESOURCES (3) A course designed to provide the undergraduate student with essential background skills in library use. Emphasis is placed on developing effective and efficient methods of using the card catalog, bibliographies, general and specialized reference works, government documents, and non-print materials. Instruction includes the methodology of writing a term paper. Not open to students who have completed 4901.004. (UG)

ISTC 201 USING INFORMATION EFFECTIVELY IN EDUCATION (3) An introduction to gathering, evaluating and communicating information. Emphasis will be on using team collaboration and problem solving to examine current issues in education. GenEd I.B.

ISTC 269 LABORATORY IN INSTRUCTIONAL HARDWARE (1-2) The course will emphasize the development of skills required in the operation of selected instructional hardware. A. Required of all Secondary Education majors; ISTC 301 may also be used to fulfill this requirement. B. Not open to students who have completed ISTC 301 or ISTC 415. (UG)

Upper Division

ISTC 301 [501] UTILIZATION OF INSTRUCTIONAL MEDIA (3) Materials, devices, techniques and settings are presented in an overview of the field of instructional technology. Laboratory experiences are

provided in the operation of instructional hardware. Must be taken for two hours credit if student has taken ISTC 269. Prerequisite: Junior standing or above or departmental approval. (UG & G)

ISTC 302 DESIGN AND PRODUCTION OF INSTRUCTIONAL MATERIALS (3) Students are required to design and produce selected instructional materials. Prerequisite: Junior standing or above or departmental approval. (UG)

ISTC 301 [501] UTILIZATION OF INSTRUCTIONAL MEDIA (3) Materials, devices, techniques and settings are presented in an overview of the field of instructional technology. Laboratory experiences are provided in the operation of instructional hardware. Must be taken for two hours credit if student has taken ISTC 269. Prerequisite: Junior standing or above or departmental approval. (UG & G)

ISTC 302 DESIGN AND PRODUCTION OF INSTRUCTIONAL MATERIALS (3) Students are required to design and produce selected instructional materials. Prerequisite: Junior standing or above or departmental approval. (UG)

ISTC 304 THE PRODUCTION OF INSTRUCTIONAL PRESENTATIONS (3) Emphasis is placed on both the basic knowledge and skills necessary to produce instructional presentations in four major formats: audio tape, video format, synchronized side-tape program, and super 8mm film properly sequenced. Student acquires experience in producing each of the four types of production as well as developing instructional guides accompanying each. Prerequisite: Junior standing or above. (UG)

ISTC 305 WRITING SKILLS FOR MEDIA CAREERS (3) Development of competencies for the specialized writing of professional careers in media. Prerequisites: ENGL 102 or ENGL 190 and 6 credits in ISTC or consent. (UG)

ISTC 311 MEDIA CENTER ADMINISTRATION (3) An examination of the organization and administration of media centers for service to students and faculty in school settings such as self-contained classrooms, open-space schools, and in independent study situations. Specific topics studied include planning and equipping media centers, routines, budgets, personnel, and criteria for evaluating school media services. Prerequisite: Junior standing or above. (UG)

ISTC 313 EVALUATION AND SELECTION OF MEDIA (3) A study of evaluating techniques for print and nonprint media. Prerequisite: Junior standing or above. (UG)

ISTC 397 STUDENT TEACHING: THE MEDIA CENTER IN THE ELEMENTARY SCHOOL (6) Supervised media center practice in an elementary or middle school. Prerequisite: ISTC 475 Admission by consent of department coordinator, approval of Director of Center for Applied Skills in Education and completion of Basic Skills Test. 2.75 QPA. Graded under S/U procedure. Application must be made to ISTC Coordinator by mid-semester prior to semester of enrolling. (UG)

ISTC 398 STUDENT TEACHING: THE MEDIA CENTER IN THE SECONDARY SCHOOL (6) Supervised media center practice in a secondary school. Prerequisite: ISTC 477. Admission by consent of department coordinator, approval of Director of Center for Applied Skills in Education and completion of Basic Skills Test. 2.75 QPA. Graded under S/U procedure. Application must be made to ISTC Coordinator by mid-semester prior to semester of enrolling. (UG)

ISTC 423 [523] INSTRUCTIONAL MOTION PICTURE FILM-MAKING I (3) This course provides an introduction to the production of motion picture films designed for instructional use. Included in the course are basic film-making techniques, scripting, editing, and a survey of motion filming equipment. Prerequisite: Junior standing or above. (UG & G)

ISTC 431 [531] INTRODUCTION TO INSTRUCTIONAL TELEVISION (3) The course will explore the design and production of non-commercial television programming for training and education. Basic production of student videotapes, script planning and instructional design competencies will be emphasized. Prerequisite: Junior standing or above. (UG & G)

ISTC 441 [541] COMPUTER TECHNOLOGY AND UTILIZATION (3) Exploratory course concerned with the rationale for and use of computers in learning and related administrative matters. Techniques are examined for the organization, storage, processing, and retrieval of data. Applications include the computer for instruction, the management of instruction, simulation, generation of graphics, and accounting for software and hardware. (Note: The course will not prepare students for occupations in computer science.) Prerequisite: Junior standing or above. (UG & G)

ISTC 453 [553] INTRODUCTION TO INSTRUCTIONAL PHOTOGRAPHY (3) This course presents basic planning and darkroom methods for preparing photographic materials. Although the thrust of the course is the black and white mode, color slides and other special topics are treated. Principles of visual literacy are stressed. Students are required to

demonstrate competencies in darkroom utilization and print critiquing as well as print production. Prerequisite: Consent of Department Chair. (UG & G)

ISTC 471 [571] REFERENCE AND INFORMATION SOURCES (3) The bibliographic method, fundamental reference sources, and searching techniques for print and non-print materials are examined. Students are required to demonstrate competencies in the use of reference sources. Prerequisite: Junior standing or above. (UG & G)

ISTC 473 [573] CATALOGING AND CLASSIFICATION OR MEDIA (3) Cataloging, subject analysis, classification and bibliographic control. The use of commercial processing services and central processing in the school system. The concept of a unified catalog and materials center for print and non-print materials is stressed. Prerequisite: Junior standing or above. (UG & G)

ISTC 475 METHODS FOR MEDIA PERSONNEL IN THE ELEMENTARY SCHOOL (2) The evaluation of the school library media center's function and services in curriculum work with teachers and students Meets S/U procedure. (UG)

ISTC 477 METHODS FOR MEDIA PERSONNEL IN THE SECONDARY SCHOOL (2) The evaluation of the school library media center's function and services in curriculum work with teachers and students. Methods of preparing and utilizing the media program. (To be taken prior to ISTC 398 Practicum: The Media Center in the Secondary School.) Prerequisite: Admission by consent of the ISTC Coordinator. Special permit. Graded under S/U procedure. (UG)

ISTC 495 INDEPENDENT STUDY IN INSTRUCTIONAL TECHNOLOGY (1-3) Individual and supervised study of research problems and special projects in specific areas of instructional technology. Prerequisites: Junior standing or above and special permit. (UG)

ISTC 497 INTERNSHIP IN LIBRARY SERVICES (6) The student under faculty and professional supervision works in a library media setting. Prerequisites: Major, Senior standing, and consent of program coordinator and completion of Basic Skills Test. Application must be made to ISTC Coordinator by mid-semester prior to semester of enrolling. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

ITALIAN (ITAL)

Lower Division

ITAL 101-102 ITALIAN ELEMENTS I, II (3,3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1. (UG)

ITAL 201-202 ITALIAN INTERMEDIATE I, II (3,3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: ITAL 101-102 or equivalent. GenEd II.C.3. (UG)

Upper Division

ITAL 301-302 ITALIAN COMPOSITION AND CONVERSATION I, II (3,3) Composition and conversation beyond the intermediate level. Conducted in Italian. Prerequisite: ITAL 201-202 or equivalent. GenEd II.C.3. (UG)

ITAL 321-322 SURVEY OF ITALIAN LITERATURE I, II (3,3) A thorough examination of Italian literature from the thirteenth century to the present. Conducted in Italian. Prerequisite: ITAL 201-202. (UG)

ITAL 494 TRAVEL STUDY ABROAD (3-16) Italian language, culture, civilization and literature at the Lorenzo de Medici School in Florence. Must be approved by department chair.

JAPANESE (JPNS)

Lower Division

JPNS 101-102 JAPANESE ELEMENTS I, II (3,3) Development of elementary vocabulary and sentences, forms of written language, conversation, composition and translation. This course will be given using the techniques of programmed instruction. GenEd II.D. (UG)

JPNS 201-202 JAPANESE INTERMEDIATE I, II (3,3) Review of elementary Japanese; intermediate Kanji; conversation and prose composition; translations; outside readings commensurate with the ability of individual student. This course will be given using the techniques of programmed instruction. Prerequisite: JPNS 101-102. GenEd II.D. (UG)

Upper Division

JPNS 301-302 JAPANESE COMPOSITION AND CONVERSATION I-II (3-3) Composition and conversation beyond the intermediate level. Conducted in Japanese. Prerequisite: JPNS 201-202 or equivalent. GenEd II.D. (UG)

JPNS 492 DIRECTED READINGS IN JAPANESE (1-3) Independent reading in sources written in Japanese. Prerequisite: JPNS 301-302 or equivalent. consent of department chair. (UG)

JPNS 494 JAPANESE TRAVEL AND STUDY ABROAD (3-16) Study of language, literature and/or culture at a Japanese university. Contact Modern Languages Department Chair and Office of International Education. Prerequisites: consent of Japanese Study Abroad Program and Department Chair. (UG)

KINESIOLOGY (KNES)**Lower Division**

KNES 111-284 These courses include a variety of professional lab skills for majors as well as team spots for both majors and non-majors. For specific titles, credits, descriptions, and prerequisites, consult physical Education Department. (UG)

KNES 196, 296, 396, 496 INDEPENDENT STUDY (.5-3) Designed to permit students to take courses which they cannot arrange within the regular semester schedule. All work will be under the direct supervision of an assigned faculty. May be repeated for a maximum of six credits. Prerequisites: Consent of Department chair. (UG)

KNES 235 INDIVIDUALIZED FITNESS (3) Individual fitness and lifestyle will be examined. Fitness components (cardio-respiratory, muscular, flexibility, weight control and psychosocial) will be assessed, evaluated and exercise prescriptions will be formulated for each individual. GenEd II.B.3. (UG)

KNES 239 PHYSICAL FITNESS ACTIVITIES (1) Development, administration, and evaluation of fitness activities for selected populations. (UG)

KNES 245 CAMP LEADERSHIP (2) The role of the camp counselor in organized camping. Emphasis on camp related skills of campcraft, trips, crafts and nature study. Several field trips. (UG)

KNES 247 OFFICIATING I (2) A study of the art of officiating through lectures, films, discussions, and practical application. Covers the sports of swimming, volleyball, wrestling, football, basketball, and field hockey. Open to majors and non-majors. (UG)

KNES 248 OFFICIATING II (2) A study of the art of officiating through lectures, films, discussions, and practical application. Covers the sports of track, softball, lacrosse, baseball, tennis and gymnastics. Open to majors and non-majors. (UG)

KNES 255 ADVANCED INDIVIDUALIZED FITNESS (3) Structure and function of the physiological components of large muscle activity and their relationship to the development and maintenance of fitness. Prerequisite: one beginning level fitness course. (UG)

KNES 269 LIFEGUARD TRAINING (2) An advanced course in life guarding techniques for swimming pools and open-water beach areas. Prerequisite: KNES 165 and HLTH 103 or equivalent. (UG)

KNES 270-275 SPECIAL TOPICS IN PHYSICAL EDUCATION (1-3) Designed for study of special topics of current interest in physical education, athletics, and their related fields. Objectives and content for each topic are reviewed and approved by the physical education faculty. May be repeated for a maximum of six credits. Prerequisite: Consent of instructor. (UG)

KNES 279 TECHNIQUES OF TEACHING CREATIVE MOVEMENT (1) A student-directed approach to the teaching of creative movement to all age levels, pre-school to senior citizen. Includes learning and utilization of basic rhythmic concepts. (UG)

KNES 281-282 PHYSICAL EDUCATION FOR ELEMENTARY EDUCATION STUDENTS I, II (1, 1) Designed for the teacher of elementary school children to gain an understanding of and develop a basic ability in the basic skills of children's activities. Provides opportunity to become familiar with methods of learning skills and to appreciate the needs of the individuals in motor learning and analysis of group behavior. Prerequisites to KNES 324. (UG)

KNES 283 PHYSICAL EDUCATION ACTIVITIES FOR THE YOUNG CHILD (1) This course will provide the physical education major with practical knowledge of appropriate movement experiences for use in a developmental program of physical education for children in grades K-3. (UG)

KNES 284 PHYSICAL EDUCATION ACTIVITIES FOR THE YOUNG CHILD (1) This course will provide the physical education major with practical knowledge of appropriate movement experiences for use in a

developmental program of physical education for children in grades K-3. (UG)

KNES 298 HISTORY & PHILOSOPHY OF PHYSICAL EDUCATION (3) Foundations of physical education. (UG)

Upper Division

KNES 301 INTRODUCTION TO RECREATION AND LEISURE (3) Recreation and leisure related to individuals, special populations and society. The impact of recreation and leisure concepts and theories on time and work. Out of class experiences required. (UG)

KNES 302 CURRICULUM IN PHYSICAL EDUCATION (3) Physical education as a part of general education, aims and content. Principles for development of a sequential physical education curriculum in grades one through twelve. Prerequisite: KNES 298, PSYC 201. (UG)

KNES 303 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3) Designed to provide experiences for the student in administrative problems and procedure from the perspective of the administrator and to also present the learner with knowledge of the administrative responsibilities associated with the physical education teacher. Prerequisites: KNES 298 and KNES 324 or 325. (UG)

KNES 305 OUTDOOR EDUCATION: PHILOSOPHY AND METHODS (3) Examination of the rationale and basic structure of outdoor education programs. An investigation of effective teaching techniques and procedures for outdoor education. Field experiences are required (students may have to provide their own transportation and equipment. The course will utilize an inter-disciplinary approach and be team taught. Prerequisites: Junior or Senior standing and one of the following: KNES 324, KNES 325 or Education Methods courses. (UG)

KNES 307 TEACHING APPRENTICESHIP (.5-1) A student with a high degree of competency may request to be assigned to assist a faculty master teacher in class instruction and evaluation. This course may be repeated for a maximum of one credit. Prerequisites: Junior-Senior status; advanced skill level; approval of chair of Physical Education, Director of Major Program and faculty member concerned. (UG)

KNES 309 TESTS AND MEASUREMENT IN PHYSICAL EDUCATION (3) Background for development of measurement programs in physical education; elementary statistical procedures; interpretation of data: selection and administration of tests measuring fitness, motor ability, and sports skills applicable to various grade and age levels. (UG)

KNES 311 BIOMECHANICS (3) Mechanical and anatomical analysis of movement in relation to human performance. Three lecture hours and two hours of laboratory experience. Prerequisites: PHYS 201 or CHEM 105, BIOL 213-214. (UG)

KNES 313 PHYSIOLOGY OF EXERCISE (3) Application of principles of physiology to large muscle activity, with special emphasis on the interrelations of muscular, nervous, circulatory, and respiratory functions during exercise. Prerequisite: BIOL 213-214. (UG)

KNES 315 CARE AND PREVENTION OF ATHLETIC INJURIES (3) Lecture and practical experiences in the study of modern theories and principles of athletic training mechanisms, nature and causes of the most common sports-related injuries. Prerequisites: BIOL 213, First Aid Certificate or HLTH 103. (UG)

KNES 324 TEACHING PHYSICAL EDUCATION IN ELEMENTARY SCHOOL (2-3) Responsibilities of the elementary school physical education teacher including class organizational procedures, a variety of teaching methods, lesson and unit plan development, and content appropriate for the elementary school child. Course includes observation and teaching experiences with elementary school children at various ages. Prerequisites: KNES 298, KNES 283, KNES 284 for physical education majors and KNES 281, KNES 282 for elementary education majors. (UG)

KNES 325 TEACHING PHYSICAL EDUCATION IN SECONDARY SCHOOL (3) Responsibilities of the secondary school physical education teacher, including class organizational procedures, variety of teaching methods, lesson and unit planning, and topics resulting from the observation/participation experience in a secondary school. Prerequisites: KNES 298, laboratory skills in team and individual sports. (UG)

KNES 331 PRINCIPLES OF COACHING (3) Designed to develop within each student an educationally sound philosophy of coaching. Emphasis will be on learning and understanding the principles and guidelines of good coaching and the application of the human psychology as it relates to the coach and athlete in their unique relationship. Prerequisite: PSYC 101 or consent of instructor. (UG)

KNES 333 SPORT MANAGEMENT (3) Managing an organization providing sport/fitness activities products or services. Prerequisite: ACCT 210. (UG)

KNES 335 PRINCIPLES AND TECHNIQUES OF WRAPPING AND TAPING (1) A laboratory study and application of bandaging and taping for preventive and therapeutic purposes in athletic training. Prerequisite: KNES 315. (UG)

KNES 341 CONCEPTS OF MOTOR LEARNING (3) Designed to study the effects of sensation and perception, reaction time, knowledge of results, retention, transfer, physical and mental practice and motivation on learning and performing motor skills. Prerequisites: PSYC 101 or consent of instructor. (UG)

KNES 351 PHILOSOPHY: THE SPORT EXPERIENCE (3) Philosophy of sport and the body, including the major philosophical schools of thought and their implications on physical education. Prerequisites: PHIL 101 or PHIL 111 or consent of instructor. GenEd I.D. (UG)

KNES 353 SPORT AND SOCIETY (3) Explores relationships between sport and social institutions. Prerequisite: SOCI 101. (UG)

KNES 355 PSYCHOLOGY OF SPORT (3) Designed to study the psychological correlates of sport. The approach will be one of understanding and application of the literature and research design of sport psychology publications. Prerequisite: PSYC 101. (UG)

KNES 392 ELEMENTARY STUDENT TEACHING (7) Practical experiences in observation, participation, and student teaching in elementary public schools under the guidance of master teachers and a university supervisor. Prerequisite: Approval of Coordinator, KNES Student Teaching and Internships and Director, C.A.S.E. Not open to students who have successfully completed ELED 392. (UG.)

KNES 393 A WORLD HISTORY OF SPORT TO 1900 (3) Explores sport and physical education in context of social, economic and political influences. Focuses upon Greece, Rome, Western Europe to ca. 1900. Prerequisite: KNES 298, or one history course. (UG)

KNES 394 SECONDARY STUDENT TEACHING (7) Practical experience in observation, participation, and student teaching in secondary public schools under the guidance of master teachers and a university supervisor. Prerequisite: Approval of Coordinator, KNES Student Teaching and Internships and Director, C.A.S.E. Not open to students who have successfully completed SCED 392. (UG.)

KNES 395 INTERNSHIP IN SPORT STUDIES (3) Designed to augment academic studies with relevant experience in potential Sport Studies career environments. May be repeated for a maximum of six credits. Prerequisite: Junior or Senior standing. Special Permit required. S/U Grading. (UG)

KNES 397 INTERNSHIP IN CAMPING OR OUTDOOR EDUCATION (3) Designed to allow academic and practical experience for students in the camp program or outdoor education area of their choice. The student will participate as a volunteer, aide, or staff member. Seminars will be held to discuss experiences. Students should expect to pay for their transportation, meals, and lodging during the practicum experience. The course will be offered primarily during the minimester and summer sessions. May be repeated for a maximum of six credits. Prerequisite: KNES 245 or KNES 305 or consent of instructor. (UG)

KNES 399 DIFFERENTIATED STUDENT TEACHING IN PHYSICAL EDUCATION (1 or 2) An additional experience in student teaching in addition to the regular student teaching experience. May be repeated for a maximum of six credits. (UG)

KNES 403 ORGANIZATION AND ADMINISTRATION OF INTRAMURALS (3) Designed to permit the graduate and undergraduate student to acquire the skills of administration necessary in the development and organization of intramural programs in schools and colleges. (UG)

KNES 409 [509] STRESS MANAGEMENT, TENSION CONTROL AND HUMAN PERFORMANCE (3) Presents information about the manifestation of stress and systematic programs for tension control. The correlates surrounding progressive muscle relaxation and biofeedback are explored in detail as well as the neurological responses which produce tension responses. Lectures are combined with laboratory experiences in an effort to understand and practice relaxation techniques. Prerequisites: One psychology and/or biological science course. (UG & G)

KNES 412 THEORY AND ANALYSIS OF GYMNASTICS MOVEMENT (3) Theoretical and practical application of mechanical analysis of movement concepts as related to proper execution of skills in gymnastics. The techniques and methods used in this course are designed to provide the teacher a logical system for presenting gymnastic skills to facilitate learning for the student; to demonstrate that gymnastic skills are logically founded on basic physics or terrestrial mechanics, to present aiding and spotting techniques. (UG)

KNES 415 [515] ADVANCED CARE AND PREVENTION OF ATHLETIC INJURIES (3) Advanced principles of athletic training including etiology, indications, evaluation and immediate management of

selected complex injuries. Prerequisite: KNES 315 or equivalent, or consent of instructor. (UG & G)

KNES 417 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING (3) Analysis and application of organizational skills and administrative structure of the athletic training profession including record keeping, budgeting and a history of athletic training. Prerequisite: KNES 315. GenEd I.D. (UG)

KNES 418 SPORT FACILITY MANAGEMENT AND OPERATIONS (3) Indoor and outdoor facilities; budget, design, maintenance, operations, planning, renovations, scheduling and staffing.

KNES 419 SWIMMING AND POOL MANAGEMENT (3) Teaching methods for all levels of swimming and diving. Modern methods of training the competitive swimmer with emphasis on technique and conditioning of the individual. The organization and administration of swimming pools and clubs with regard to staff, recreation and pool filtration. This is a certifiable course for pool management, approved by the Department of Health, Baltimore County. Prerequisites: KNES 261 and KNES 262. (UG)

KNES 421 PHYSICAL EDUCATION PROGRAM IN THE ELEMENTARY SCHOOLS (3) Current trends and issues in curriculum development, methods and materials and research, concerned with elementary school physical education programs. Prerequisite: KNES 324. (UG)

KNES 423 [523] ADAPTIVE PHYSICAL EDUCATION (3) Recognition of pupils with physical deviations, and use of special or modified physical education activities. Prerequisites: KNES 311, KNES 324 or KNES 325, BIOL 213-214. (UG & G)

KNES 426 MOTOR DEVELOPMENT: INFANTS TO ADULTS (3) Research of literature in motor development and performance of the individual from infancy through adulthood. Impact of motor development on cognitive, affective and psychomotor development.

KNES 428 THERAPEUTIC TECHNIQUES IN ATHLETIC TRAINING (3) Analysis and application of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by athletes. Prerequisite: KNES 315, 415. (UG)

KNES 429 PHYSICAL ASSESSMENT FOR ATHLETIC TRAINING (3) Analysis and performance of comprehensive evaluation of injuries commonly sustained in athletics. Prerequisite: KNES 315, 415. (UG)

KNES 430 [530] MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3) Application of problem solving and individualized methods of teaching of movement for the elementary school child. Development of programs and materials for teaching creative dance, games and sports. Survey of current literature. (UG & G)

KNES 431 SEMINAR IN ATHLETIC TRAINING (2) Roles, responsibilities of medical and paramedical personnel comprising the sports medicine team. Prerequisites: KNES 428 and KNES 429. (UG)

KNES 433 APPLIED SPORT PSYCHOLOGY (3) Applications of sport psychology theory to the competitive setting. Prerequisite: PSYC 101. (UG)

KNES 435 [535] PROGRAMS IN OUTDOOR EDUCATION (3) Examines the varied programs in Outdoor Education offered within the state, nation, and selected foreign countries. Traditional and innovative programs will be reviewed. Concepts revealed will be contrasted and meeting educational objectives. Several field trips are required. Open to Education majors. Prerequisite: Six hours of physical education, recreation or education. Graduates: Degree in Physical Education. (UG & G)

KNES 437 SPORT AND THE MEDIA (3) Symbiotic relationship between sport and electronic/print media. Prerequisite: KNES 353. (UG)

KNES 441 [541] THE AMERICAN WOMAN IN SPORT (3) Historical, physiological, psychological, sociological, and philosophical perspectives and societal attitudes toward women who participate in sport. Prerequisites: PSYC 101 or SOCI 101 or WMST 231. (UG & G)

KNES 451 [551] HISTORY OF AMERICAN SPORT (3) Explores sport in American society from an historical perspective, emphasizing content and methods in sport history. Prerequisites: KNES 298 or HIST 145 or HIST 146. (UG & G)

KNES 453 SPORT ADMINISTRATION (3) Designed to aid those persons responsible for organizing and administering intramural and interschool athletic programs. Topics such as organizational patterns, objectives of the programs, controls, game management, records, conduct of tournaments, officials, awards and means of promoting the programs will be considered. Study will be made of competitive as well as informal recreation programs on all educational levels, with special emphasis on the secondary schools. Prerequisite: Upper-division standing in Physical Education or Coaching or Administrative Experience. (UG)

KNES 455 [555] PHYSICAL ACTIVITY PROGRAMMING FOR THE OLDER ADULT (3) Application of physiological, psychological, sociological, and motor learning principles to the development of physical

activity programs for older adults. Prerequisite: PSYC 203 or consent of instructor. (UG & G)

KNES 470-479 [570-579] SELECTED TOPICS IN PHYSICAL EDUCATION (1-3) Workshop designed for study of special topics of current interest in physical education and athletics. Content varies and will focus on substantive material or operational problems. May be repeated for a maximum of six credits. Prerequisite: Consent of workshop director and/or graduate coordinator. (UG & G)

KNES 494 [594] TRAVEL STUDY (3) Study of selected physical education programs, practices, or facilities. Study group will be accompanied by TU Physical Education Department faculty member. Prerequisite: As specified in course outline and consent of instructor. (UG & G)

KNES 496 [596] INDEPENDENT STUDY (1-3) Course is designed to permit students to take courses which they cannot arrange within the regular semester schedule. All work will be under the direct supervision of an assigned faculty. No more than 3.0 credits may be earned in Independent Study unless the permission of department chair is obtained.. (UG & G)

Graduate Division

See TU *Graduate School Catalog* for course descriptions.

LATIN (LATN)

Lower Division

LATN 101-102 LATIN ELEMENTS I, II (3, 3) The fundamentals of Latin grammar will be taught and related to French, Italian, and Spanish. Selections from elementary texts will be read. GenEd II.C.1. (UG)

LATN 201-202 LATIN INTERMEDIATE I, II (3,3) A review of grammar studied in Latin Elements, continuing to the study of advanced grammar and syntax. Long passages by Latin authors will introduce the study of Latin stylistics as well as Roman history and culture. Prerequisite: LATN 101-102 or consent of instructor. GenEd II.C.1. (UG)

Upper Division

LATN 301-302 ADVANCED READINGS IN LATIN I, II (3,3) Study of selected texts from Classical Latin prose and poetry with special attention to review of grammar and vocabulary and to styles of translation. Prerequisite: LATN 201-202 or equivalent or consent of instructor. GenEd II.C.1. (UG)

LEGAL STUDIES (LEGL)

Lower Division

LEGL 225 LEGAL ENVIRONMENT OF BUSINESS (3) Sources of law and our legal system, emphasis on court jurisdiction, procedure, tort and criminal law, contracts, sales, anti-trust, law, and workers compensation and consumer, environmental and international law. (UG)

LEGL 226 BUSINESS LAW (3) Law of agency, partnership, corporations, real and personal property, estates, bankruptcy, commercial paper and secured transactions. Prerequisite: BULA 225 or LEGL 225.

Upper Division

LEGL 325 SPORTS LAW (3) Review of legal background of sports and recreation, analyzing torts, contracts, anti-trust issues, constitutional and labor law. Prerequisite: BULA 225 or LEGL 225. (UG)

LEGL 470 - 479 SPECIAL TOPICS IN LEGAL STUDIES Course content varies with each topic. In-depth study of contemporary business issues as they affect current business law practice. Prerequisite: Consent of instructor.

MANAGEMENT (MNGT)

Upper Division

MNGT 311 BUSINESS ON THE INTERNET: KNOWLEDGE NAVIGATING (3) Using resources on the Internet including design of web pages and conducting business on the net. (UG)

MNGT 355 INTERNATIONAL BUSINESS (3) International payments, importing and exporting, foreign investment, market entry, foreign taxation, international business law. Prerequisite: Junior/major standing and completion of all 200 level Business Administration core courses. (UG)

MNGT 361 MANAGEMENT AND ORGANIZATION THEORY (3) Nature, development and future prospects of management and organization theory. Management functions and processes in terms of planning, organizing, leading, controlling, and communications.

Exploration of social responsibility of business and international management. Special permit required.. Prerequisites: Junior standing. ECON 201 and 202. (UG)

MNGT 363 DECISION SCIENCES I (3) Quantitative techniques for management practices: linear programming, transportation, decision theory, project scheduling, forecasting. Prerequisites: Junior standing, core computer science course, MATH 231. (UG)

MNGT 365 PRINCIPLES OF OPERATIONS MANAGEMENT (3) Strategies and techniques for controlling service and manufacturing operations: forecasting, inventory management, simulation, queuing, quality management. Prerequisites: Junior standing, MNGT 361 and MNGT 363. (UG)

MNGT 381 HUMAN RESOURCE MANAGEMENT (3) Techniques and issues in acquiring, developing, motivating, and maintaining a competent work force. Topics include equal employment opportunity, human resource planning, recruitment and selection, training and development, performance evaluations, motivation, compensation and benefits, labor relations, and safety and health. Prerequisites: Junior standing, MNGT 361. (UG)

MNGT 411 BUSINESS AND THE INTERNET: STRATEGY, STRUCTURE AND FUNCTIONS IN THE ELECTRONIC MARKETPLACE (3) Impact of electronic commerce on strategy, organization structure and operating functions; web-site business plan and web-site development. Prerequisite: MNGT 311. (UG)

MNGT 419 SUPPLY-CHAIN MANAGEMENT (3) Materials management and materials support service and product delivery; technical support, materials handling, distribution/transportation strategies, impact on scheduling and inventory; international supply-chain management. Prerequisites: Senior standing, MNGT 365. (Not open to those who completed OPRE 419.) (UG)

MNGT 421 MANAGEMENT OF ORGANIZATIONAL BEHAVIOR (3) Performance management, jobs and design of work, work teams, power/politics, stress/well-being at work, career management, quality management. Prerequisite: MNGT 381. (UG)

MNGT 423 SERVICE OPERATIONS MANAGEMENT (3) concepts and techniques of service operations management, emphasizing problem-solving methods and exercises. Prerequisite: MNGT 363. (UG)

MNGT 425 ORGANIZATIONAL THEORY AND DESIGN (3) Design of complex organizations focusing on organization, structure, process, technology, and growth. Prerequisites: Senior standing, MNGT 361. (UG)

MNGT 433 COMPENSATION AND BENEFITS (3) Analysis and management of compensation systems. Job evaluation, wage levels, structures, and planning for the public and private sectors. Prerequisites: Senior standing, MNGT 363 MNGT 381. (UG)

MNGT 437 INFORMATION TECHNOLOGY (3) Information requirements of business: Data base design, analysis, and implementation. Prerequisite: Senior standing, core Computer Science requirement. (UG)

MNGT 438 MULTINATIONAL MANAGEMENT AND STRATEGIES (3) Global strategy, management and organization of multinational corporations. Organization development, strategy and interaction of host country policies and multinational operations. Prerequisite: Senior standing, MNGT 361, and MNGT 355. (UG)

MNGT 441 MANAGEMENT EXPERIENCE SIMULATION (3) Computer-assisted top-management experience integrating knowledge, skills, and attitudes essential for leadership positions. Prerequisites: completion of all 300 level Management core courses. (UG)

MNGT 443 PROJECT MANAGEMENT (3) Systematic approach to planning, scheduling, and controlling organizational activities: timelines, budgets, and quality criteria. Prerequisite: MNGT 365. (UG)

MNGT 451 INDUSTRIAL RELATIONS (3) Nature, development, and process of labor-management relationships. Labor laws, organizing, contract negotiations, grievances and arbitration, and future issues for unions. Prerequisites: Senior standing, MNGT 381. (UG) (Not open to those who completed HRM 451.)

MNGT 453 CONFLICT RESOLUTION IN BUSINESS (3) Resolving disputes in business operations through negotiations, mediation and arbitration, as alternatives to litigation. Dispute areas include buyer/seller, management salaries, service contractor, real estate and other situations common to business. Prerequisites: Senior standing, MNGT 361. (UG) (Not open to students who have taken HRM 452 or HRM/MNGT 470 - Grievance and Arbitration.)

MNGT 455 SMALL BUSINESS DEVELOPMENT (3) The research and planning process needed to start a small business is emphasized. Entrepreneurial management strategies for marketing, finance, and operations are studied. The preparation of a business plan is required. Prerequisites: Senior standing, FIN 331, MKGT 341, MNGT 365. (UG)

MNGT 459 PURCHASING MANAGEMENT (3) The study of the purchasing process in both the private and public sectors. The role of purchasing management in providing support to operations management is emphasized. Prerequisites: Senior standing and all 200 and 300 level Business Administration core courses. (UG)

MNGT 461 TOTAL QUALITY MANAGEMENT (3) Understanding and implementing quality management in organizations. Topics include philosophy of quality, behavioral tools, statistical process control and implementation issues. Prerequisites: Senior standing, MNGT 363, MNGT 365.

MNGT 463 ORGANIZATIONAL LEADERSHIP (3) Students experience various ways of thinking about and responding to the concept and processes of leadership and leadership behavior related to the management of human organizations. Prerequisites: Senior standing, MNGT 361. (UG)

MNGT 465 ORGANIZATION DEVELOPMENT (3) Theories and methods used to facilitate change in the organization. Emphasis on the change process, change agents, and the organizational culture. Prerequisite: Senior standing, MNGT 361. (UG)

MNGT 467 DECISION SCIENCES II (3) Advanced quantitative techniques and utilization of microcomputers to solve realistic business problems. Prerequisites: Senior standing or consent of instructor, MNGT 363. (UG)

MNGT 470-479 SPECIAL TOPICS IN MANAGEMENT (3) Course content varies with each topic. In-depth study of contemporary business issues as they affect current management practices. Prerequisite: consent of instructor. Special permit only. (UG) (Not open to students who have taken HRM 470-479.)

MNGT 481 BUSINESS STRATEGY AND POLICY (3) A capstone course integrating operational skills and theories and emphasizing managerial decision making as it relates to strategic management and business policy in domestic and international operations. Prerequisites: Special permit, Senior standing, completion of FIN 331, MKTG 341, MNGT 361, MNGT 363, and MNGT 365. (UG) (Not open to students who have completed Business Policy.)

MNGT 482 BUSINESS ETHICS AND SOCIETY (3) Interaction between business and its non-economic environments; ethical reasoning, stakeholder analysis, corporate responsibility, crisis management and business in the political process. Prerequisites: Senior standing, MNGT 361. (UG)

MNGT 491 DIRECTED READINGS (Management) (1-3) Assigned readings in selected areas of management. A maximum total of six credits for any combination of Directed Readings, Independent Study, and Internship is allowed in the Management concentration. Prerequisites: consent of the instructor, a minimum of 3.0 cumulative QPA, completion of all 200 and 300 level Management core requirements, and a special permit. (UG)

MNGT 495 INDEPENDENT RESEARCH (Management) (1-3) Directed research in specific areas of management. A maximum total of six credits for any combination of Directed Readings, Independent Study, and Internship is allowed in the Management concentration. Prerequisites: consent of the instructor, a minimum of 3.0 cumulative QPA, completion of all 200 and 300 level Management core requirements, and a special permit. (UG)

MNGT 497 MANAGEMENT INTERNSHIP (3) Students are required to work in government or industry for a minimum of 120 hours to gain practical experience in the application of management concepts. All positions have been reviewed and approved by management faculty. Graded under the S/U procedure. A co-op fee is required. A maximum total of six credits for any combination of Directed Readings, Independent Study, and Internship is allowed in the Management concentration. Prerequisites: consent of the instructor, a minimum 3.0 cumulative QPA, completion of all 200 and 300 level management core requirements, and a special permit. (UG)

MNGT 498 PRACTICUM IN MANAGEMENT (3) Synthesis of management knowledge, skills and attitudes through professional responsibilities in employment, internship, or comparable experience. Prerequisite: Senior standing. (UG)

Graduate Division

See TU Graduate School Catalog for course descriptions.

MARKETING (MKTG)

Upper Division

MKTG 341 PRINCIPLES OF MARKETING (3) Marketing problems of business firms. Influence of the marketplace, the industry structure, and the role of government. Prerequisite: Junior standing. (UG)

MKTG 343 PHYSICAL DISTRIBUTION MANAGEMENT (3) Transportation, packaging, materials handling, warehouse location and functions. A systems approach is employed emphasizing the trade-offs between the various functions. Prerequisite: MKTG 341. (UG)

MKTG 345 ADVERTISING MANAGEMENT (3) Promotional strategies for different classification of products and services. Planning, preparing and scheduling advertisements. Media selection and determination of ad effectiveness. Advertising research. Prerequisite: Junior standing. (UG)

MKTG 347 SERVICES MARKETING (3) Examines the marketing of services. The uniqueness of Services Marketing will be analyzed along with the similarities to product marketing. Selected topics among the following services will be examined: health care, museums, government services, travel, transportation, food, education, banking and legal services. The service aspects of product marketing will also be analyzed. Prerequisites: MKTG 341, Junior Standing.

MKTG 349 PRODUCT DEVELOPMENT AND PLANNING (3) Development of new goods and services including idea generation, concept evaluation, test marketing and product launch. Prerequisite: MKTG 341 and Junior standing. (UG)

MKTG 351 SALES MANAGEMENT (3) Principles of successful selling, presenting, negotiating, and managing a sales force. Prerequisite: MKTG 341. (UG)

MKTG 355 RETAIL MANAGEMENT (3) The course provides the student with an in-depth knowledge of marketing activities at the retail level in the business environment. Different types of retail institutions are examined as to the types of strategies employed in the performance of major functions such as buying, merchandising, selling, advertising and physical operation. Key issues such as market segmentation, geographical location and internal organization are analyzed. Prerequisite: Marketing 341 and Junior standing. (UG)

MKTG 357 MARKETING CHANNELS (3) Processes and interdependent institutions for transfer of product ownership from seller to buyer; structure, functions, and activities of traditional and contemporary channels. Prerequisite: MKTG 341 and Junior standing. (UG)

MKTG 359 MARKETING ETHICS (3) Moral standards associated with marketing issues such as product safety, pricing of goods and services and advertising practices. Prerequisite: MKTG 341 and Junior standing. (UG)

MKTG 361 MARKETING FOR NON-PROFIT ORGANIZATIONS (3) Analyzing marketing management approaches and techniques for non-profit sector; market-driven organizations; developing resources; designing and implementing the marketing mix. Prerequisites: MKTG 341 and Junior standing. (UG)

MKTG 371 PRINCIPLES OF TRANSPORTATION (3) Economic and political factors affecting transportation and transportation systems. Development problems and government regulations. Study of freight and passenger carrier modes. Prerequisite: Junior/Major standing or consent of instructor. (UG)

MKTG 411 MARKETING INFORMATION SYSTEMS (3) Retrieval, analysis and storage of information to support marketing decisions; utilizes Internet and WWW. Prerequisites: MKTG 341 and Junior standing. (UG)

MKTG 425 BUYER BEHAVIOR ANALYSIS (3) The behavior and motivation of the consumer and industrial buyer with emphasis on the analysis of buyer behavior from the standpoint of the business firm and its consequences to marketing strategy. Prerequisite: MKTG 341; PSYC 209 recommended. (UG)

MMKTG 441 MARKETING RESEARCH AND FORECASTING (3) Marketing research as a tool to facilitate the corporate decision-making process from sales research, market analysis through motivational analysis, advertising policy and product and package design. Research design, sampling theory, data collection, interview techniques and statistical analysis. Prerequisites: MKTG 341 and MATH 231 or ECON 301. (UG)

MKTG 442 MARKETING HONORS SEMINAR (3) Decision-making skills and the formulation of strategies and policy. Market segmentation, consumer behavior, pricing, product line strategy, and promotion. Prerequisites: Senior standing and consent of instructor. (UG)

MKTG 443 BUSINESS TO BUSINESS MARKETING (3) Specific requirements for successful marketing of industrial products, as opposed to consumer goods, are discussed in detail. Significant aspects of marketing functions will be investigated in the light of the need of the business user. Prerequisite: MKTG 341. (UG)

MKTG 445 INTERNATIONAL MARKETING (3) Impact of international marketing environments on pricing, product channels of distribution, advertising, and promotion. Problems and obstacles related to market surveys and development of policies. Regional studies. Prerequisites: MKTG 341.

MKTG 470-479 SPECIAL TOPICS IN MARKETING (3) Course content varies with each topic. In-depth study of contemporary business issues and how they affect current management practices. Prerequisite: consent of instructor. Special permit only. (UG) (Not open to students who have taken 0506.470-479.)

MKTG 485 STRATEGIC MARKETING (3) Capstone course emphasizing management of marketing activities and development of implementation of product, pricing, promotion and distribution. Prerequisites: MKTG 341 and 6 additional credits in Marketing courses. Special permit required. (UG)

MKTG 491 DIRECTED READINGS (Marketing) (1-3) Readings in selected functional or conceptual areas of marketing. Prerequisite: Consent of instructor. Special permit. (UG)

MKTG 495 INDEPENDENT RESEARCH (Marketing) (1-3) Directed research on specific problems in a functional area of marketing. May be re-elected for a maximum total of 6 credits. Prerequisite: Consent of instructor. Special permit. (UG)

MKTG 497 INTERNSHIP: Marketing (3) Students are required to work in assigned projects in actual business environments. Priority will be given to seniors. Graded under S/U procedure. May be re-elected for a maximum total of 6 credits. Prerequisite: Consent of instructor and minimum 2.5 cumulative GPA. Special permit. {Co-op Fee Required} (UG)

Graduate Division

See TU *Graduate School Catalog* for course descriptions.

MASS COMMUNICATION (MCOM)

Lower Division

MCOM 125 INTRODUCTION TO PUBLIC RELATIONS AND ADVERTISING (3) Examination of public relations and advertising from a consumer's point of view. Not open to those who have completed MCOM 353 prior to Fall, 1989. (UG)

MCOM 140 INTRODUCTION TO ELECTRONIC MEDIA (3) Role of science, politics, culture, and economics in the development and present status of radio, television, cable, and satellite industries. Not open to those who have completed MCOM 201 prior to Fall, 1989. GenEd II.B.3. (UG)

MCOM 145 INTRODUCTION TO FILM (3) Motion picture communication, technology, and terminology through film analysis and filmmaking projects. Not open to those who have completed MCOM 202 prior to Fall, 1989. (UG)

MCOM 151 INTRODUCTION TO JOURNALISM (3) Personnel tasks, and institutions of the print and broadcast media professions. Historical development, legal concerns, and ethical standards are covered. GenEd II.B.3. (UG)

MCOM 205 IMAGES OF WOMEN IN FILM (3) Examination of the treatment of women in film from the silent movies to the present. Exploration of how these images reflect and affect the social role/status of women during the period. Emphasis on American film. (UG)

MCOM 214 PRINCIPLES OF ADVERTISING (3) Review of contribution made by advertising to the United States economy; and of the principles and practices as applied to mass media. Prerequisite: MCOM 125. (UG)

MCOM 253 PRINCIPLES OF PUBLIC RELATIONS (3) Research, theory, and techniques: strategy planning and management of public relations programs. Law, ethics, and professionalism are covered. Prerequisites: MCOM 125 and COMM 131 or SPCH 131. Not open to those who have completed MCOM 353 prior to Spring, 1997. (UG)

MCOM 265 RADIO PRODUCTION I (3) Introduction to the equipment and performance techniques to produce a variety of radio show formats. Prerequisites: MCOM 140 or MCOM 201 and COMM 131 or SPCH 131. (UG)

MCOM 267 FILMMAKING I (3) Techniques and theories of motion picture production. Students design, film, and edit their projects. Prerequisites: MCOM 145 or MCOM 202. (UG)

MCOM 271 TELEVISION PRODUCTION I (3) Basic principles, procedures, and techniques of television production. Students will be required to participate on the college television production crew. Prerequisite: MCOM 140 or MCOM 201. (UG)

Upper Division

MCOM 325 ADVERTISING COPYWRITING (3) Creative process and production of copy for various media: print, broadcasting, direct mail, and billboards. Prerequisites: MCOM 214. (UG)

MCOM 350 MEDIA LAW (3) Examination of libel, slander, invasion of privacy, and copyright. Legal considerations in reporting on judicial and governmental activities. Prerequisites: MCOM 140 or MCOM 201 and MCOM 151. (UG)

MCOM 352 MEDIA CRITICISM (3) Theory and practice of media criticism intended for various audiences, including consumer oriented criticism, social criticism, and scholarly criticism. Prerequisites: MCOM 151, MCOM 140 or MCOM 201 and MCOM 145 or MCOM 20, or permission of instructor. (UG)

MCOM 355 NEWSWRITING (3) Newswriting from the standpoint of style, structure, and readability. Prerequisites: MCOM 151, one English Composition course, and efficient typing skill. (UG)

MCOM 356 FEATURE WRITING (3) Researching and writing journalistic articles for publication in newspapers, magazines, and other media. Prerequisites: MCOM 355, one English Composition course, and efficient typing skill. Fulfills advanced writing requirement. GenEd I.D. (UG)

MCOM 357 PUBLIC RELATIONS WRITING (3) Composing publicity materials. Prerequisite: MCOM 253 and MCOM 355. GenEd I.D. (UG)

MCOM 358 NEWS EDITING (3) Practice in editing, headline writing, page make-up, and use of pictures and type in newspapers, and editing copy for use on radio and television. Prerequisite: MCOM 355. (UG)

MCOM 359 MAGAZINE PUBLISHING (3) Examination of the principles, practices, problems, and trends in magazine publishing through tracing process of a magazine from copy to bindery. Steps in periodical production stressing emphasis on layout factors. Intensive analysis of magazine markets and case studies of magazine publishing problems. Prerequisite: MCOM 355. (UG)

MCOM 360 ADVERTISING CAMPAIGNS: PORTFOLIO DESIGN (3) Application of advertising principles and practices to the preparation of an advertising portfolio. Prerequisites: MCOM 325 and MCOM 355. (UG)

MCOM 361 DOCUMENTARY FILM AND VIDEOTAPE (3) History, theory, and criticism of documentaries. Production required. Prerequisites: MCOM 140 or MCOM 201, MCOM 145 or MCOM 202, and MCOM 267 or MCOM 271. (UG)

MCOM 362 EXPERIMENTAL FILM AND VIDEOTAPE (3) History, theory, and criticism of avant-garde works. Production required. Prerequisites: MCOM 140 or MCOM 201, MCOM 145 or MCOM 202, and MCOM 267 or MCOM 271. (UG)

MCOM 363 HISTORY OF FILM (3) Exploration of the social, artistic, economic, and technical factors in the development of the motion picture from 1900 to the present. Prerequisite: MCOM 145 or MCOM 202 and ENGL 102. Fulfills advanced writing requirement. GenEd I.D. (UG)

MCOM 364 AESTHETICS OF THE FILM (3) Theory and aesthetics of silent, sound, and avant-garde motion pictures. Prerequisite: MCOM 145 or MCOM 202, or consent of instructor. (UG)

MCOM 365 RADIO PRODUCTION II (3) The process of commercial and studio recording for radio broadcast will be studied through an examination of the principles of tape recording and editing. The student will participate in commercial and studio recording projects. Prerequisite: MCOM 265. (UG)

MCOM 367 FILMMAKING II (3) Exploration of advanced techniques in 16mm filmmaking, involving treatment and script preparation, directing, cinematography, sound recording, editing, and post production. Prerequisite: MCOM 267. (UG)

MCOM 368 GENRE THEORY AND CRITICISM (3) Principles and aesthetics of different film genres. Prerequisite: MCOM 363. (UG)

MCOM 370 INTERNATIONAL ADVERTISING (3) The role of advertising and promotion programs in the world marketplace. Consideration of global and local perspectives, constraints, key decisions in agency operations, creative aspects, and media. Prerequisite: MCOM 360. (UG)

MCOM 371 TELEVISION PRODUCTION II (3) Advanced techniques in television production for commercial and educational television. Major emphasis on directing and producing. Prerequisite: MCOM 271 or consent of instructor. (UG)

MCOM 375 BROADCAST PERFORMANCE (3) The process of communication through broadcast performance. The principles of broadcast communication will be applied to such functions as television and radio news announcing, commercial announcing, sports announcing, and music announcing. Laboratory experiences provided. Prerequisite: MCOM 265. (UG)

MCOM 377 BROADCAST/FILM WRITING (3) Training and practice in writing non-fiction, fiction, and commercial/PSA scripts for the broadcast media and film. Prerequisites: MCOM 267 or MCOM 271 and ENGL 102. Not open to students who have taken MCOM 373. Fulfills advanced writing requirement. GenEd I.D. (UG)

MCOM 381 BROADCAST JOURNALISM (3) Theory and practice of broadcast journalism. The gathering, writing, and presentation of news for audio-only and audio-visual media. Ethical standards for broadcast journalism will be analyzed. Prerequisites: MCOM 140 or MCOM 201 and MCOM 355. (UG)

MCOM 383 NEWS REPORTING (3) Experience in reporting. Coverage of specific news beats on and off campus and general assignment work. Consideration of news-gathering techniques, including: direct and participant observation, use of survey research data, and use of official records. Prerequisite: MCOM 355 (UG)

MCOM 385 MASS MEDIA AND SOCIETY (3) Seminar on current issues and effects of mass communication. Prerequisites: MCOM 140 or MCOM 151 or MCOM 201. (UG)

MCOM 391 PHOTOJOURNALISM I (3) Photography for the mass media. History, aesthetics, and ethics are covered. Prerequisites: MCOM 355, PHSC 234 or ART 234, or consent of instructor. (UG)

MCOM 403 SPORTSCASTING (3) Theory and practical application of sportswriting, interviewing, and play-by-play description. Prerequisite: Junior/senior standing, MCOM 265 and MCOM 371 (may be taken concurrently). (UG)

MCOM 405 SCREENWRITING (3) Narrative structure and mechanics; creation of a complete feature-length screenplay. Prerequisite: MCOM 377. (UG)

MCOM 411 COMMUNICATION PROCESS (3) Prominent theories and research on mass media and human communication. Prerequisites: COMM 131 and Junior or Senior standing. Not open to those who have successfully completed MCOM 211 (Communication Process) prior to Fall, 1993. (UG)

MCOM 415 MASS MEDIA GRAPHICS (3) Communication potential of design elements in a variety of graphics using computer technology. Prerequisites: MCOM 358 or MCOM 391 or consent of instructor. (UG)

MCOM 422 CONFERENCE AND MEETING MANAGEMENT (3) Communicative details in preparing for and conducting events. Prerequisite: COMM 419 (may be taken concurrently). (UG)

MCOM 430 THE MEDIA PRODUCER (3) Management and administration of film and video projects. Prerequisites: MCOM 267 or MCOM 271, and Junior/Senior standing. (UG)

MCOM 431 (550) PUBLIC OPINION AND THE PRESS (3) Journalistic aspects of public opinion and propaganda; the impact of mass communication media on the formation of public opinion. Techniques of polling and testing public opinion. Not open to students who have taken MCOM 351 (Public Opinion and the Press) prior to Fall 1990. (UG & G)

MCOM 436 (536) VIDEO AND FILM EDITING (3) Theory and practice of editing to construct continuity sequences. Prerequisite: MCOM 367 or MCOM 371. Not open to students who completed MCOM 366 prior to Fall 1990. (UG & G)

MCOM 440 ADVERTISING MEDIA SALES (3) Procedures for selling media space and time; strategy, training, and preparation. Prerequisite: MCOM 325 (UG)

MCOM 445 CORPORATE OR INSTITUTIONAL ADVERTISING (3) Techniques used by corporations to develop institutional messages for public presentations. prerequisites: MCOM 214 and MCOM 253. (UG)

MCOM 451 (551) PUBLIC RELATIONS FOR NON-PROFIT ORGANIZATIONS (3) A study of public relations in the non-profit organization. Fundraising, lobbying, working with volunteers, media relations, and the overall PR program will be studied. Course combines theory and practice. Contacts made with community non-profit organizations are the basis for practical experience lab sessions. Prerequisite: MCOM 253. (UG & G)

MCOM 453 (553) PUBLIC RELATIONS CAMPAIGNS (3) Strategies and case histories. Design of public relations programs for selected clients. Prerequisites: MCOM 253 and MCOM 357; MCOM 357 can be taken concurrently with Public Relations Campaigns. Not open to those who have completed MCOM 453 (553)-Advanced Publicity and Public Relations prior to Fall, 1989. (UG & G)

MCOM 455 DIRECTING FOR FILM (3) Fundamentals of screen directing, which includes script breakdown, scene blocking, communication with cast and crew, and the logistics of production. Prerequisite: MCOM 267 or MCOM 271. (UG)

MCOM 457 PHOTOJOURNALISM II (3) Color photography for the mass media including electronic imaging. Prerequisite: MCOM 391. (UG)

MCOM 459 (559) PROFESSIONAL ISSUES IN PUBLIC RELATIONS (3) Technical, managerial, legal, and ethical issues, emphasizing accreditation standards of professional associations. Prerequisite: MCOM 453 for undergraduates; permission of instructor for graduates. (UG & G)

MCOM 460-469 (560-569) INTERNSHIP IN MASS COMMUNICATION (1-6) Practical field experiences. Under faculty and I/CE supervision, the student works as an intern with a working professional in some field of mass communication. Prerequisites: Junior/Senior standing. Minimum overall GPA of 2.75 and 3.00 in the major. Completion of appropriate courses determined by the department. Please check with the I/CE office for specifics. Each number may be attempted for a maximum of 6 credits. (S/U grading only) (UG & G)

MCOM 471 TELEVISION PRODUCTION III (3) Exploration of fiscal, managerial, technical, and creative responsibilities of the producer and aesthetic, interpretive, stylistic concerns of the director. Prerequisite: MCOM 371. (UG)

MCOM 473 FILM MAKING III (3) Professional film production techniques. Prerequisite: MCOM 367. (UG)

MCOM 475 (575) FILM WORKSHOP (3) Designed primarily to provide experienced or future teachers with background about film so that they may better help pupils to become informed about and to develop critical reactions to the films they view. Prerequisite: Consent of instructor. (UG & G)

MCOM 476 SPECIAL TOPICS IN ELECTRONIC MEDIA (3) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisites: MCOM 140 or MCOM 201 and Junior/Senior standing. (UG)

MCOM 478 SPECIAL TOPICS IN FILM (3) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisites: MCOM 145 or MCOM 202 and Junior/Senior standing. (UG)

MCOM 479 SPECIAL TOPICS IN MASS COMMUNICATION (3) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisite: Junior/Senior standing or consent of instructor. (UG)

MCOM 491 INDEPENDENT STUDY IN FILM (1-6) Directed study in production or research through readings, projects, papers, and/or seminars. May be attempted for a maximum of 6 credits. Prerequisites: MCOM 267 and consent of instructor. (UG)

MCOM 493 INDEPENDENT STUDY IN RADIO (1-6) Directed study through readings or projects in conjunction with the operation of the student radio station. Selected students may work as laboratory assistants in the MCOM 265 (Radio Production I) class. May be attempted for a maximum of 6 credits. Prerequisites: MCOM 265 and consent of instructor. (UG)

MCOM 495 INDEPENDENT STUDY IN TELEVISION (1-6) Directed study through readings, projects, papers, or seminars. May be attempted for a maximum of 6 credits. Prerequisites: MCOM 371 and consent of instructor. (UG)

MCOM 496 INDEPENDENT STUDY IN JOURNALISM (1-6) Directed study through readings, projects, papers, or seminars. May be attempted for a maximum of 6 credits. Prerequisites: MCOM 355 and consent of instructor. (UG)

MCOM 497 INDEPENDENT STUDY IN PUBLIC RELATIONS (1-6) Directed study through readings, projects, papers, or seminars. May be attempted for a maximum of 6 credits. Prerequisites: MCOM 353 and consent of instructor. (UG)

Graduate Division

See TU Graduate School Catalog for course descriptions.

MATHEMATICS (MATH)

Lower Division

MATH 105 MATHEMATICAL IDEAS (3) Sets, counting methods, mathematical systems, basic rules of probability, statistics, and additional topics selected from logic, finance, geometry, numeration system, and modeling. Prerequisites: Two years of algebra or DVMT 110, and one year plane geometry. (Not counted towards nor required for early childhood education or elementary education majors.) GenEd I.C. (UG)

MATH 111 ALGEBRA FOR APPLICATIONS (3) Intended primarily for students in business, economics, psychology and the social sciences. Applications of finite mathematics: linear equations, matrices, linear programming using graphical methods and the simplex algorithms, sets and counting, elementary probability. Prerequisites: Two years of algebra or DVMT 110, and one year plane geometry. (Not open to students who have completed MATH 115 or MATH 119.) GenEd I.C. (UG)

MATH 115 BASIC MATHEMATICS FOR THE SCIENCES (3) Intended primarily for students in biology, natural sciences, environmental studies, medical technology, and nursing. Functions and equations: linear, quadratic, exponential, trigonometric. Applications of concepts and skills to the life and physical sciences are stressed. Prerequisite: Two years of algebra or DVMT 110, and one year plane geometry. (Not open to students who have completed MATH 119.) GenEd I.C. (UG)

MATH 119 PRE-CALCULUS (4) The concept of function, exponential, logarithmic, circular and trigonometric functions, systems of linear equations, vectors in two space, lines, conic sections and polar coordinates. Prerequisites: Two years algebra or DVMT 110, one year plane geometry, year trigonometry. GenEd I.C. (UG)

MATH 204 MATHEMATICAL CONCEPTS AND STRUCTURES I (4) Logic, sets, systems of numeration, abstract systems, elements of number theory, development of number system through real numbers, functions and relations, and problem solving using physical materials and educational technology. (Required of all early childhood and elementary education students.) (UG)

MATH 205 MATHEMATICAL CONCEPTS AND STRUCTURES II (4) Metric, non-metric, and coordinate geometry, using LOGO and other educational technology in geometry, probability, statistics and measurement. (This course is required of all early childhood and elementary education students.) GenEd I.C. (UG)

MATH 206 NUMBER SYSTEMS AND FUNCTIONS (4) Number theory including systems of numeration, functions, problem solving with technology, and basic concepts of calculus from an intuitive standpoint. Intended primarily for students interested in teaching mathematics in grades 4-8. Prerequisites: Two years algebra or DVMT 110, one year plane geometry, year trigonometry.

MATH 207 QUANTITATIVE AND GEOMETRIC REASONING (4) Advanced treatment and applications of concepts in geometry, measurement, trigonometry, probability and statistics. Appropriate use of current technology, such as LOGO, will be emphasized. Intended primarily for students interested in teaching mathematics in grades 4-8. Prerequisite: MATH 206. GenEd I.C.

MATH 211 CALCULUS FOR APPLICATIONS (3) Intended primarily for students in biology, business, economics, psychology and the social sciences. Elements of differential and integral calculus from an intuitive standpoint with emphasis on the use of calculus in the above fields. Exponential and logarithmic functions, partial derivatives included. Prerequisite: MATH 111 or MATH 119. (Not open to mathematics majors or minors.) GenEd I.C. (UG)

MATH 231 BASIC STATISTICS (3) Frequency distributions and graphical methods, percentiles, measures of central tendency and variability, probability emphasizing binomial and normal distributions, sampling distributions, point and interval estimation, one and two sample hypothesis tests, simple linear regression. MINITAB or an equivalent computer package is introduced as a computational tool. Practical applications of statistics. Prerequisite: MATH 111 or MATH 115 or equivalent. GenEd I.C. (UG)

MATH 237 ELEMENTARY BIOSTATISTICS (4) Elementary statistical concepts and their application to the biological and health sciences. Descriptive statistics, vital statistics, estimation techniques, hypothesis testing, analysis of enumerative data and one way analysis of variance. A statistical package such as MINITAB is introduced as a computational tool. Prerequisite: Two years high school algebra or DVMT 110. (Not open to those who have completed MATH 231 or MATH 331. Not open to mathematics majors.) GenEd I.C. (UG)

MATH 263 DISCRETE MATHEMATICS (3) Sets, logic, induction, functions, relations, sequences, recursion, combinatorics, graphs and trees, matrices with an emphasis on applications in computer science. Prerequisite: Four years of high school mathematics or MATH 119. GenEd I.C. (UG)

MATH 265 ELEMENTARY LINEAR ALGEBRA (4) Matrix calculations and determinants, vector spaces over the real numbers, linear transformations, eigenvalues, eigenvectors, and inner products with emphasis on applications. Prerequisite: MATH 211 or MATH 273. (Not open to those who completed MATH 365.) (UG)

MATH 267 INTRODUCTION TO ABSTRACT MATHEMATICS (4) Sets, mappings, relations, logic, properties of the integers, polynomials and groups. Prerequisite: MATH 273. (Not open to those who completed MATH 361.) (UG)

MATH 273 CALCULUS (4) Functions, limits and continuity, differentiation of algebraic and trigonometric functions; mean value theorem; differentials; introduction to integration; applications. Five contact hours. Prerequisite: MATH 119 or calculus course in high school or adequate score on Placement Test. GenEd I.C. (UG)

MATH 274 CALCULUS II (4) Differentiation and integration of exponential logarithmic, and inverse trigonometric functions; techniques of integration and applications; indeterminate forms; improper integrals; sequences and series of numbers; power series. Five contact hours. Prerequisite: MATH 273. GenEd I.C. (UG)

MATH 275 CALCULUS III (4) Vectors in two and three dimensions, differential and integral calculus of functions of several variables. Prerequisite: MATH 274. (Not open to those who completed MATH 373.) GenEd I.C. (UG)

MATH 293 HONORS SEMINAR IN MATHEMATICS (3) A problem solving seminar designed for students who have shown talent in mathematics but have not yet been exposed to advanced mathematics courses. Techniques of problem solving and the solution of challenging problems involving elementary mathematics such as probability, number theory, graph theory and counting. It is expected that qualified students will usually take this course during their freshman or sophomore year. Honors College Course. Prerequisite: Special permit only by Departmental Honors Committee. (Offered only in the Spring Semester). GenEd I.C. (UG)

Upper Division

MATH 301 [501] HISTORY OF MATHEMATICS (3) Development of mathematics emphasizing mathematical concepts and contributions and individuals and societies. Prerequisite: MATH 263 or MATH 267, and MATH 274. (Major credit only toward secondary education concentration.) (UG & G)

MATH 305 CHANCE (3) Role of chance in a variety of contemporary scientific, social, and ethical issues. This course satisfies the Geed II.A.2 requirement. Prerequisite: One college level mathematics course and one college level science course; junior standing or by permission. (No credit toward a mathematics major.) Geed II.A.2. (UG)

MATH 315 APPLIED COMBINATORICS (3) General counting methods, pigeon-hole principle, generating functions, partitions, recurrence relations, inclusion-exclusion principle, Polya's enumeration, introduction to graph theory. Prerequisite: MATH 263 or MATH 265 or MATH 267. (UG)

MATH 321 TEACHING MATHEMATICS IN EARLY CHILDHOOD EDUCATION (3) Materials of instruction and methods of presentation with emphasis on the discovery approach. Prerequisites: MATH 204 (or MATH 206) and MATH 205 (or MATH 207). No credit toward a mathematics major or minor.) (UG)

MATH 323 TEACHING MATHEMATICS IN ELEMENTARY SCHOOL (3) Nature of instruction, organization of units of instruction, provisions for developing understandings, new programs and research findings, and techniques and evaluation. Required of all elementary education majors. Prerequisites: MATH 204 (or MATH 206) and MATH 205 (or MATH 207). No credit toward a mathematics major or minor.) (UG)

MATH 324 SUPERVISED OBSERVATION/PARTICIPATION IN ELEMENTARY SCHOOL MATHEMATICS (2) Application of methodology for developing and conducting classroom activities in mathematical concepts and skills at local elementary school(s). Co-requisite: MATH 323. (UG)

MATH 326 THE MATHEMATICS OF INFORMATION SCIENCE (3) Encoding information introducing metrics, isometries, equivalence relations, modular arithmetic, base 2 arithmetic, matrix algebra, probability and combinatorics including Binary codes, bar codes, check digits, internal computer representations of information, and logic gates. Students cannot earn credit for both COSC 326 and MATH 326. (No credit toward a Computer Science major or minor.) (UG)

MATH 330 INTRODUCTION TO STATISTICAL METHODS (4) An introductory course for students with mathematics and computing backgrounds emphasizing statistical ideas and techniques. Descriptive statistics, probability, estimation and sampling, hypothesis testing, regression and correlation, and analysis of variance. A statistical package such as MINITAB is introduced as a computational tool. Prerequisite: MATH 274 (or concurrently) and COSC 236. (UG)

MATH 331 [531] PROBABILITY (4) Probability in sample spaces, discrete and continuous random variables, distribution theory, Chebyshev's Theorem, Central Limit Theorem, expected values and moments. Prerequisite: MATH 274. (UG & G)

MATH 332 [531] MATHEMATICAL STATISTICS (4) Sample theory and distributions, point estimation, confidence intervals, tests of hypothesis, regression, correlation and analysis of variance. Prerequisite: MATH 331. (Offered only in the Spring semester.) (UG & G)

MATH 333 [533] APPLIED REGRESSION AND CORRELATION ANALYSIS (3) Relationships among variables emphasizing linear

- regression with one or more independent variables, methods of estimating parameters and testing hypotheses, selection of independent variables and other topics. Prerequisite: One course in elementary statistics. (UG & G)
- MATH 334 [534] NONPARAMETRIC STATISTICAL METHODS (3)** Applied study of popular nonparametric tests, procedures utilizing data from a single sample and two or more independent and related samples, Chi-square tests of independence, homogeneity and goodness-of-fit; rank correlation and other measures of association. Prerequisite: One course in elementary statistics. (UG & G)
- MATH 335 [545] SAMPLING TECHNIQUES (3)** Simple random, stratified, systematic cluster and double sampling. Sampling for proportions, averages and totals, and sample size determination. Prerequisite: One course in elementary statistics. (UG & G)
- MATH 336 [546] STATISTICAL METHODS IN QUALITY CONTROL (3)** Statistical process control including principles of control charts, control charts for attributes and variables, and special control charts. Methods for quality improvement. Acceptance sampling including single, double, multiple and sequential attribute sampling, and acceptance sampling by variable. Prerequisite: One course in elementary statistics. (UG & G)
- MATH 351 ELEMENTS OF GEOMETRY (3)** Geometric reasoning skills, measurement concepts and processes, emphasizing geometric definitions and properties, vocabulary and techniques, constructions and scale drawings, and measurement of plane and space figures. (Not open to mathematics majors.) (UG)
- MATH 353 EUCLIDEAN AND NON-EUCLIDEAN GEOMETRIES (3)** Review of synthetic Euclidean geometry, non-Euclidean geometries, finite geometries and systems of axioms, classical theorems, and elementary transformations. Prerequisite: MATH 263 or MATH 267, and MATH 273. (Offered only in spring semester.) (UG)
- MATH 367 [567] THEORY OF NUMBERS (3)** Theory of prime numbers, the division algorithm, the Fundamental Theorem of Arithmetic, polynomials, congruences, and number theoretic functions. Prerequisite: MATH 263 or MATH 267. (Offered only in the Fall semester.) (UG & G)
- MATH 374 [574] DIFFERENTIAL EQUATIONS (3)** Theory and application of linear ordinary differential equations. Solutions of non-linear ordinary differential equations of the first order. Prerequisite: MATH 274. (UG & G)
- MATH 377 [575] MATHEMATICAL MODELS (3)** Developing appropriate mathematical models and techniques to solve mathematical problems in sociology, psychology, economics, management science, and ecology. Prerequisites: MATH 265, MATH 274, COSC 236 and at least Junior standing. (UG & G)
- MATH 379 [579] ADVANCED CALCULUS (3)** Vector, integral, and differential calculus including the divergence and Stoke's theorems. Fourier series, orthogonal functions and applications. Prerequisite: MATH 275. (UG & G)
- MATH 390 INTRODUCTION TO ACTUARIAL MATHEMATICS (3)** Problem-oriented review of discrete mathematics, calculus of one and several variables, linear algebra, and introductory complex functions with discussions of on-going professional actuarial projects. Prerequisites: MATH 265 and MATH 275. (UG)
- MATH 397 INTERNSHIP IN MATHEMATICS (3)** Each student will be assigned to work on a mathematics project for a local business or industry under the direction of the industry supervisor and a member of the mathematics faculty. Prerequisites: Junior standing and 6 hours of upper-division mathematics courses. (May be repeated for a maximum of 6 credits. No credit toward a mathematics major or minor.) (UG)
- MATH 421 [521] APPLICATIONS OF MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3)** The course examines a series of applications of mathematics that may be used to enrich the secondary mathematics curriculum. Prerequisite: Teaching experience in mathematics or science or consent of instructor. (No credit towards a mathematics major.) (UG & G)
- MATH 422 SEMINAR IN MATHEMATICS EDUCATION FOR ELEMENTARY SCHOOL TEACHERS (3)** Analysis of topics, techniques, programs and materials used in the teaching and learning of mathematics in the elementary schools. Prerequisite: MATH 321 or MATH 323. (Credit may be applied to the elementary education mathematics minor program but not to other mathematics major/minor program.) (UG)
- MATH 423 TEACHING MATHEMATICS IN THE SECONDARY SCHOOLS (3)** Examination of courses of study and textbooks, study of methods of teaching. Prerequisites: MATH 267 and MATH 353, or consent of instructor. (Open only to students in the student teaching block. This course shall be offered only in the spring semester to be followed by MATH 426 during the Fall.) (UG)
- MATH 425 [525] METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (1-3)** Examination of and experiences with commercial and teacher-made materials designed for a laboratory (activity-centered) approach to learning mathematics. Prerequisite: A methods course in teaching mathematics (MATH 321, 323, 423) or previous teaching experience. (UG & G)
- MATH 426 STUDENT TEACHING IN SECONDARY EDUCATION-MATHEMATICS (12)** Field experience in public school classrooms under the guidance of master teachers and a university supervisor. Prerequisites: PSYC 201, SCED 319 or SCED 341, SCED 460, SPED 301, MATH 423 and written permission from the Center of Applied Skills in Education. (UG)
- MATH 427 [527] READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3)** Directed study for the teacher of elementary school mathematics. Prerequisites: MATH 321 or MATH 323 and approval of instructor. (No credit toward a mathematics major.) (UG & G)
- MATH 428 SENIOR SEMINAR MATHEMATICS EDUCATION (2)** Integration of mathematical knowledge and pedagogical issues in secondary schools. Prerequisites: Senior standing and MATH 423, which may be taken concurrently. (UG)
- MATH 429 [529] READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3)** Directed study for the teacher of secondary school mathematics. Prerequisite: Consent of instructor. (No credit toward a mathematics major.) (UG & G)
- MATH 433 [543] APPLIED ANALYSIS OF VARIANCE (3)** Single and multifactor models, inference for factor level means, multiple comparison methods for factor level means, test of additivity, tests of homogeneity, regression approach to analysis of variance. Prerequisite: MATH 333. (UG & G)
- MATH 435 [535] NUMERICAL ANALYSIS I (4)** Error analysis, interpolation, numerical differentiation and integration, numerical solution of algebraic equations and of systems of algebraic equations. Prerequisites: MATH 265, MATH 274 and COSC 236. (UG & G)
- MATH 436 [536] NUMERICAL ANALYSIS II (4)** Numerical solution of differential equations. Least squares and its applications, linear programming and extension of the concepts of MATH 435. Prerequisite: MATH 435. (Offered only in the Spring semester.) (UG & G)
- MATH 437 [537] OPERATIONS RESEARCH (4)** Introduction to linear and integer programming, the simplex method and duality theory; dynamical formulation of deterministic decision process problems, applications to problems of equipment replacement, resource allocation and scheduling, Poisson processes, and birth and death processes. Prerequisites: MATH 265 and MATH 331. (UG & G)
- MATH 438 [538] LIFE CONTINGENCIES I (3)** Theory and applications of contingency mathematics in the areas of life and health insurance, annuities and pensions from both the probabilistic and deterministic approaches. Prerequisite: MATH 331. (UG & G)
- MATH 439 [539] LIFE CONTINGENCIES II (3)** Theory and applications of multiple life functions, multiple decrement models, valuation theory of pension plans, insurance models including expenses, nonforfeiture benefits and dividends. Prerequisite: MATH 438. (UG & G)
- MATH 451 [551] GRAPH THEORY (3)** Hamiltonian and Eulerian graphs, coloring graphs, planar and non-planar graphs, connectivity problems; isomorphic graphs, and advanced topics. Prerequisites: MATH 265 or MATH 267. (UG & G)
- MATH 457 [557] DIFFERENTIAL GEOMETRY (3)** Curvatures of curves and surfaces in three dimensional Euclidean space, geodesics, invariants, mappings, and special surfaces. Prerequisite: MATH 275. (UG & G)
- MATH 463 [563] LINEAR ALGEBRA (3)** Vector spaces over arbitrary fields, linear transformations, eigenvalues, eigenvectors, inner products, bilinear forms, direct sum decompositions and the Jordan form. Prerequisites: MATH 265 and MATH 267. (Not open to those who completed MATH 365.) (UG & G)
- MATH 467 [568] ALGEBRAIC STRUCTURES (4)** Groups, rings, fields, integral domains, and polynomial rings. Prerequisites: MATH 265 and MATH 267. (Not open to those who completed MATH 361.) (UG & G)
- MATH 473 [576] INTRODUCTORY REAL ANALYSIS (4)** An introduction to mathematical analysis. Sequences, series, continuity, differentiation, integration and uniform convergence. Prerequisites: MATH 267 and MATH 275. (UG & G)
- MATH 475 [577] COMPLEX ANALYSIS (3)** Complex number system, analytic functions, Cauchy's integral theorem and integral formula, Taylor and Laurent series, isolated singularities, Cauchy's residue theorem and conformal mappings. Prerequisite: MATH 275. (UG & G)
- MATH 477 [578] TOPOLOGY (3)** Basic concepts of point set topology, separation axioms, compact and connected spaces, product and quotient

spaces, convergence, continuity and homeomorphisms. Prerequisites: MATH 267 and MATH 275. (UG & G)

MATH 480-489 [580-589] SELECTED TOPICS IN MATHEMATICS AND STATISTICS (1-4) Topics will be chosen from different areas in mathematics and statistics. Content will be determined so as to complement course offerings as well as the needs and desires of the students. MATH 480 through MATH 483 may not be counted towards a mathematics major. Students may not accumulate more than 9 credit hours in Selected Topics. Prerequisites will vary from topic to topic. (UG & G)

MATH 490 SENIOR SEMINAR IN MATHEMATICS (2) Selected mathematical topics and their applications. Prerequisite: Senior standing. (UG)

MATH 491 [591] READINGS IN MATHEMATICS (1-3) Independent reading in selected areas of mathematics. Prerequisite: Consent of instructor. May be repeated for a maximum of 6 credits. (Open only to seniors.) (UG & G)

MATH 493 DIRECTED READINGS IN MATHEMATICS (HONORS) (3) Individual reading and background research under direction of a faculty member in preparation for writing an honors thesis. (To be restricted to students in the departmental honors program.) Prerequisite: Admission to department honors program. (UG)

MATH 495-496 APPLIED MATHEMATICS LABORATORY I, II (3,3) Investigation by a team of students under faculty direction of a problem of mathematical and/or computational nature, chosen from proposals submitted by clients in the university or local industry. Team involvement may include literature searches, model definition, collection and analysis of data and model verification. Restricted to invited students. Prerequisites: Nine hours of mathematics and/or computer science, at least Junior standing, and consent of instructor. (UG)

MATH 499 HONORS THESIS IN MATHEMATICS (3-6) Writing of an honor thesis based on individual research. May be repeated for a maximum of 6 credits. (Open only to advanced honors candidates.) Prerequisite: Permission of Department Honors Committee. (UG)

Graduate Division

See TU *Graduate School Catalog* for course descriptions.

MUSIC APPLIED (MUSA)

Lower Division

PRIVATE LESSONS

Private music lessons are given as listed below. There is an additional fee charged for private music lessons. Music majors and minors are charged \$85 per semester per credit for lessons which are a requirement of their degree programs. Non-music majors/minors, as well as majors/minors taking lessons which are not a requirement of their degree programs, are charged a private lesson fee of \$245 per semester per credit. Each credit equals one half-hour private lesson per week plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of Department Chair. (UG)

MUSA 151-152 PERCUSSION-SNARE DRUM PRIVATE LESSONS (1-2)

MUSA 153-154 PERCUSSION-MALLETS PRIVATE LESSONS (1-2)

MUSA 155-156 PERCUSSION-TIMPANI PRIVATE LESSONS (1-2)

MUSA 157-158 DRUM SET LESSONS (1-2)

MUSA 159-160 PERCUSSION-MULTIPLE PRIVATE LESSONS (1-2)

MUSA 171-172 BRASS PRIVATE LESSONS (1-2)

MUSA 173-174 PIPE ORGAN PRIVATE LESSONS (1-2)

MUSA 177-178 PIANO PRIVATE LESSONS (1-2)

MUSA 179-180 STRING PRIVATE LESSONS (1-2)

MUSA 181-182 VOICE PRIVATE LESSONS (1-2)

MUSA 183-184 WOODWIND PRIVATE LESSONS (1-2)

MUSA 185-186 GUITAR PRIVATE LESSONS (1-2)

MUSA 187-188 COMPOSITION PRIVATE LESSONS (1-2)

MUSA 189-190 HARPSICORD PRIVATE LESSONS (1 or 2)

MUSA 195-196 JAZZ/COMMERCIAL GUITAR PRIVATE LESSONS (1-2)

MUSA 197-198 JAZZ/COMMERCIAL BASS PRIVATE LESSONS (1-2)

MUSA 251-298 PRIVATE LESSONS (1-2) Refer to 151-198 for course description, fee and time. May be repeated for credit. (UG)

Upper Division

MUSA 351-398 PRIVATE LESSONS (1-2) Refer to MUSIC 151-198 for course description, fee and time.

MUSA 451-498 PRIVATE LESSONS (1-2) Refer to MUSIC 151-198 for course description, fee and time. May be repeated for credit. (UG)

Graduate Division

See TU *Graduate School Catalog* for course descriptions.

MUSIC (MUSC)

Lower Division

MUSC 100 INFORMATION GATHERING AND ASSESSMENT IN

MUSIC (3) Traditional and electronic information, sources, methods, and technology to retrieve, critically assess, and integrate information. GenEd I.B. (UG)

MUSC 101 INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE (3) Masterworks of European and American art music from the perspective of contemporary society through lecture, listening, and discussion. Open to non-music majors; does not satisfy major requirement. GenEd II.C.1. for non-music majors. (UG)

MUSC 102 INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE: ANALYTIC EMPHASIS (3) Masterworks of European and American art music from the perspective of contemporary society. Ability to read music essential. GenEd II.C.1. (UG)

MUSC 104 MUSIC OF THE NINETEENTH CENTURY (3) Consideration of concert music composed between 1810-1900: the romantic piano piece, solo song, symphony, concerto, chamber music; emphasis is on acquiring listening skills for recognition of compositional techniques peculiar to composers and genres of the period. Intended for non-majors. (UG)

MUSC 105 ELEMENTS OF WESTERN MUSIC THEORY (3) Theoretical concepts through practical experiences with notation, meter, scales, intervals, and chord structures. Open to non-majors and music minors. GenEd II.C.1. (UG)

MUSC 106 HONORS INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE (3) Masterworks of European and American art music from the perspective of contemporary society. Open to non-music majors; does not satisfy major requirement. Honors College course, special permit only. GenEd II.C.1.

MUSC 107 MUSIC FUNDAMENTALS (3) The study of basic music skills and concepts for prospective kindergarten and elementary teachers. (UG)

MUSC 109 INTRODUCTION TO WORLD MUSICS (3) Musical traditions of the world, including understanding of musical languages and development of listening skills for appreciation of diverse musical cultures. GenEd II.D. (UG)

MUSC 111 INTRODUCTION TO AMERICAN MUSIC (3) Genres and styles of American music from pre-colonial times to present: religious, folk, popular, musical theatre, jazz, and classical. GenEd II.B.1. (UG)

MUSC 113 [313] CLARINET CHOIR (1,1) Study and performance of clarinet choir literature. Open to all students by audition. May be repeated for credit. (UG)

MUSC 115 [315] MARCHING BAND (1) Performance of a variety of marching band literature as well as various styles of marching techniques. Open to all students. May be repeated for credit. (UG)

MUSC 121 INTRODUCTORY MUSICIANSHIP (3) Instruction in basic music reading, scales, rhythms and elementary harmony. Designed for students whose theory placement exams indicate a need for remedial work in Music Theory. May not be counted towards the Music major. Special permit required. Music majors only or consent of instructor. (UG)

MUSC 123 HISTORY OF JAZZ (3) Stylistic survey of major currents in the history of jazz. Explores importance of this musical tradition in American culture. GenEd II.B.1. (UG)

MUSC 125 HONORS HISTORY OF JAZZ (3) An examination of major currents in the history of jazz. Explores the importance of this musical tradition in American culture through discussion, analysis, listening, and independent study. Honors College Course. Special permit only. GenEd II.B.1.

MUSC 127 ELEMENTS AND HISTORY OF ROCK MUSIC (3) Contributions to rock music through basic musical elements. Prerequisites: None. GenEd II.B.1. (UG)

MUSC 131-132 MUSIC THEORY I AND II (2,2) The study of harmony up to secondary dominants and modulation. Elements of counterpoint and form. Prerequisite for Theory I: Theory Placement exam or MUSC 121. Prerequisite for Theory II: MUSC 131. (UG)

MUSC 133-134 MUSICIANSHIP I AND II (2,2) Development of aural skills through sight singing, dictation, improvisation and keyboard applications. Correlated with Music Theory I and II. Normally taken concurrently with MUSC 131-132. Prerequisite for Musicianship I: Theory placement exam or MUSC 121. Prerequisite for Musicianship II: MUSC 133. (UG)

- MUSC 135 COMPUTER APPLICATIONS IN MUSIC (3)** Introduction to the concepts, terms and skills needed for creative use of computer applications in music. The Musical Instrument Digital Interface (MIDI) protocol will be explored with a focus on the design and creative use of computer music systems.
- MUSC 137 [337] WIND ENSEMBLE (1,1)** Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition required. May be repeated for credit. (UG)
- MUSC 139 [339] GUITAR ENSEMBLE (1,1)** Study and performance of guitar ensemble music. Required of all Guitar majors. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 141 [341] BRASS ENSEMBLE (1,1)** Study and performance of advanced brass literature, required of all students majoring in brass instruments. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 143 [343] MUSICAL THEATRE ORCHESTRA (1)** Study and performance of musical theater literature. May be repeated for credit. Prerequisite: Audition. (UG)
- MUSC 145 [345] PERCUSSION ENSEMBLE (1,1)** Study and performance of advanced percussion literature; supplement and improve the percussion student's musical training by acquainting the student with the various techniques involved in performing on the numerous percussion instruments. Required of all percussion majors. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 147 [347] SAXOPHONE ENSEMBLE (1,1)** Study and performance of advanced saxophone ensemble music. Required of all saxophone majors. Open to all students by audition. May be repeated for credit. Prerequisites: Consent of director. (UG)
- MUSC 149 [349] CHAMBER ENSEMBLE (1,1)** Study and performance of chamber music. Open to all instrumental students by audition. Required of all students concentrating in string instruments. May be repeated for credit. (UG)
- MUSC 151 [351] VOICE ENSEMBLE (1,1)** Small group study and performance of advanced choral literature. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 153 [353] WOODWIND ENSEMBLE (1,1)** Study and performance of advanced woodwind literature required of all students majoring in woodwind instruments. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 157 [357] JAZZ ENSEMBLE (1,1)** Study and performance of music of jazz idiom. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 159 [359] EARLY MUSIC ENSEMBLE (1,1)** Study and performance of Baroque, Renaissance, Medieval literature. Open to vocalists and performers of early instruments such as recorder, viol, harpsichord, sackbut, flute, oboe, violin, cello, bassoon, guitar, vielle, lute, medieval harp and crumhorn. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 161 [361] CHAMBER SINGERS (1,1)** The study and performance of Choral Literature written and suitable for a small (15-20) chorus. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 203 OPERA ORCHESTRA (1)** Study and performance of opera literature. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 205 WOMEN IN WESTERN MUSIC (3)** Roles and contributions of women composers and performers from ancient Greece to contemporary American society. GenEd II.C.3.
- MUSC 209 [309] OPERA WORKSHOP (1)** Basic techniques of stage movement and related aspects of opera production. Musical and dramatic preparation of operatic scenes and roles. Participation in operatic performances. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 211-212 BRASS CLASS (1,1)** Class instruction for music education majors in brass instruments. (UG)
- MUSC 215-216 PERCUSSION CLASS (1,1)** Class instruction for music education majors in percussion instruments. (UG)
- MUSC 217-218 PIANO CLASS (1,1)** Class instruction for music education majors in piano playing, with one hour daily practice in preparation required. Open to beginning students and students with a minimum of piano work. Prerequisite for MUSC 218. MUSC 217 or equivalent. (UG)
- MUSC 219 LOWER STRING CLASS (1)** Class instruction for music education majors in lower string instruments. (UG)
- MUSC 220 UPPER STRING CLASS (1)** Class instruction for music education majors in upper string instruments. (UG)
- MUSC 221-222 VOICE CLASS (1,1)** Class instruction in singing, with emphasis upon basic singing techniques and voice production through the use of song material. (UG)
- MUSC 223 WOODWIND CLASS I (1)** Class instruction in woodwind instruments. Emphasis on acquiring basic playing facility. Concepts and procedures introduced which develop teaching expertise on woodwind instruments at beginning, intermediate and advanced proficiency levels. (UG)
- MUSC 224 WOODWIND CLASS II (1)** Continuation of Woodwind Class I. Provides opportunity to instruct one another in a practice-teaching setting. Prerequisite: MUSC 223. (UG)
- MUSC 225-226 GUITAR CLASS (1,1)** Class instruction in guitar. (UG)
- MUSC 229 CONDUCTING LABORATORY ENSEMBLE (0,5)** Ensemble for students studying conducting. Provides performing experience for students on secondary instruments. Instrumental music education majors required to take one semester. Graded under S U procedure. (UG)
- MUSC 231-232 MUSIC THEORY III AND IV (2,2)** The study of chromatic harmony and various modern practices including modality, extended tonality and serial techniques. Elementary counterpoint. Binary and ternary forms. Variation principle. Prerequisite for Theory III: MUSC 132. Prerequisite for Theory IV: MUSC 231. (UG)
- MUSC 233-234 MUSICIANSHIP III & IV (2,2)** Development of aural skills through sight singing, dictation, improvisation and keyboard applications. Correlated with Music Theory III & IV. Normally taken concurrently with MUSC 231-232. Prerequisite for Musicianship III: MUSC 134. Prerequisite for Musicianship IV: MUSC 233. (UG)
- MUSC 235 KEYBOARD HARMONY (1)** Keyboard application of theoretical techniques with emphasis on chordal harmonization, and transposition of melodies. Prerequisite: MUSC 218 or equivalent. (UG)
- MUSC 236 PERCUSSION WORKSHOP (1)** Covers performance concepts and teaching concepts on all percussion instruments; class type lessons on auxiliary percussion; learning to maintain and repair mallets and instruments; learning to "custom make" beaters, holders, etc.; learning to write for percussion; rehearsing and conducting percussion solo and ensemble literature. Prerequisite: Open only to percussion majors. (UG)
- MUSC 241 VOICE/MOVEMENT INTEGRATION FOR THE SINGER (3)** Theories and methods of Laban Movement Studies to promote efficient voice production and characterization.
- MUSC 245 DICTION FOR SINGERS I (ENGLISH AND ITALIAN) (2)** Using the International Phonetic alphabet as a basis for pronunciation. This course is designed to introduce singers to the fundamentals of English and Italian Diction. Prerequisite: Voice major or permission of instructor. (UG)
- MUSC 246 DICTION FOR SINGERS II (FRENCH AND GERMAN) (2)** Using the International Phonetic alphabet as a basis for pronunciation. This course is designed to introduce singers to the fundamentals of French and German Diction. Prerequisites: Voice major and MUSC 245 or permission of instructor. (UG)
- MUSC 251 SOLO AND ENSEMBLE ACCOMPANYING (1)** Practical experience under supervision in solo and ensemble accompanying. Prerequisite: One semester of piano and consent of instructor. May be repeated for credit. (UG)
- MUSC 255 [355] TOWSON STATE UNIVERSITY CHORAL SOCIETY (1,1)** Study and performance of advanced choral literature. Open to all students. May be repeated for credit. (UG)
- MUSC 257 PEP BAND (1)** Wind ensemble which performs at various college functions such as athletic events, assemblies, etc. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 263 [363] UNIVERSITY CHORALE (1,1)** Study and performance of advanced choral literature. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 267 [367] ORCHESTRA (1,1)** Study and performance of orchestral literature. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 269 [369] SYMPHONIC BAND (1,1)** Study and performance of advanced wind and percussion literature by a large band of selected instrumentalists. Personnel to be determined by balanced instrumentation. Open to all students by audition. May be repeated for credit. (UG)
- MUSC 281 RECORDING TECHNIQUES I (3)** A course in recording techniques involving the history, concepts and mechanics of the recording process. Designed to train students for the recording of live concerts, this

course acquaints the student with acoustical principles, recording hardware, and recording procedures. Includes laboratory work assisting in the recording studio during concerts. Prerequisite: MUSC 101 or MUSC 102 and permission of the instructor. (UG)

MUSC 282 RECORDING TECHNIQUES II (3) This course emphasizes signal processing equipment and how it relates to live recording from the concert stage. Includes experience recording live concerts in the Fine Arts Concert Hall. Prerequisite: Recording Techniques I and permission of instructor. (UG)

Upper Division

MUSC 301 HISTORY OF MUSIC I (3) Survey of the development of Music in the Western World from the period of Ancient Greece to the end of the Baroque Period. Emphasis is placed on stylistic analysis of the music. Prerequisites: MUSC 102; MUSC 231. (UG)

MUSC 302 HISTORY OF MUSIC II (3) Survey of the development of Music in the Western World from the Classical Era to the present. Emphasis is placed on stylistic analysis of music. Prerequisites: MUSC 102, MUSC 231, ENGL 102 or 190. GenEd I.D. (UG)

MUSC 304 BASIC COMPOSITION (3) Elementary techniques and preparation of musical manuscript. Analysis and composition in both traditional and contemporary styles and forms. Prerequisites: MUSC 232 or equivalent. (UG)

MUSC 305 INTRODUCTION TO THE MUSIC INDUSTRY (3) Publishing, copyright law, licensing, managers and agents, arts administration, concert promotion, music merchandising, recording and selling. (UG)

MUSC 307 MARCHING BAND TECHNIQUES (0.5) Organization and administration of marching band: show design, music programming, field preparation and rehearsal techniques. (UG)

MUSC 311 ACCOMPANYING AND SIGHT READING I (3) Study of vocal instrumental accompanying with emphasis on sight reading, transposition and acquaintance with vocal and instrumental literature. Prerequisite: Permission of instructor. (UG)

MUSC 312 ACCOMPANYING AND SIGHT READING II (3) Advanced study of vocal and instrumental accompanying with emphasis upon sight reading, transposition and acquaintance with vocal and instrumental literature. Prerequisite: MUSC 311. (UG)

MUSC 321 JAZZ HISTORY (3) Survey of jazz from its origins to the present day. Prerequisite: MUSC 232. (UG)

MUSC 323 JAZZ THEORY (3) Study and practice of rhythmic, harmonic and melodic dictation in jazz styles; the use of extended chords and modal harmony in the jazz idiom. Prerequisite: MUSC 232. (UG)

MUSC 325 JAZZ REPERTOIRE (3) Study and performance of standard jazz literature for small, varied instrumental groups or vocalists. Prerequisite: MUSC 232. (UG)

MUSC 327 CHORAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation with relation to choral organizations. Prerequisite: MUSC 132 or permission of instructor. (UG)

MUSC 329 INSTRUMENTAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation with relation to instrumental organizations. Prerequisite: MUSC 132 or permission of instructor. (UG)

MUSC 335 CHORAL AND INSTRUMENTAL ARRANGING (3) Composition and arranging techniques for voices and/or instruments. Prerequisite: MUSC 232, equivalent, or consent of instructor. (UG)

MUSC 342 VOCAL PEDAGOGY (2) Theory and practice of the teaching of singing by national styles, historical approaches and the physiology of the voice. Prerequisite: MUSA 281 or consent of instructor. MUSC 245 & 246. (UG)

MUSC 378 PIANO PEDAGOGY (3) Instructional methods and teaching material in teaching of piano students. Prerequisite: MUSA 278 or consent of instr (UG)

MUSC 399 JUNIOR RECITAL (1) Preparation and performance of junior recital as required for Bachelor's degree with concentration in performance. Graded under S/U procedure. Prerequisite: Minimum of 4 credits of private lessons and Junior standing in music. Must be enrolled concurrently in private lessons at the Junior level. (UG)

MUSC 401 [501] MUSIC PRIOR TO 1600 (3) The art of music in the West from its tentative beginnings in Greek and Hebrew traditions to the year 1600 A.D. Prerequisite: MUSC 301 or consent of instructor. (UG & G)

MUSC 402 [502] MUSIC OF THE BAROQUE PERIOD (3) Study of the development of music style, forms and compositional techniques during

the period from 1600 to about 1750. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 403 [503] MUSIC OF THE CLASSICAL PERIOD (3) Styles, forms and techniques of the period from 1750-1820. Particular emphasis is placed on such instrumental categories as the string quartet, sonata, symphony and concerto as illustrated in the works of Haydn, Mozart and Beethoven. Attention is given to operatic and sacred compositions of the same masters. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 404 [504] MUSIC OF THE ROMANTIC PERIOD (3) Musical styles, forms and techniques of the 19th century with special attention to the intellectual foundations of the Romantic movement. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 405 [505] CONTEMPORARY MUSIC (3) Styles, forms and musical techniques since 1900. Prerequisite: MUSC 302 or consent of instructor. (UG & G)

MUSC 406 [506] SURVEY OF SOLO VOICE LITERATURE (3) A musical survey of the art-song from circa 1750 to the present. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 407 [507] TONAL COUNTERPOINT (3) A study of the polyphonic practices employed in 18th century counterpoint. Prerequisite: MUSC 232. (UG & G)

MUSC 408 [508] MODAL COUNTERPOINT (3) Analysis and writing of counterpoint in the style of Sixteenth Century masters such as Palestrina and Lassus. The approach of traditional species practice will be employed. Prerequisite: MUSC 232 or equivalent. (UG & G)

MUSC 409 [509] HISTORY AND LITERATURE OF GUITAR, LUTE, AND VIHUELA (3) A survey of the history of and literature written for or readily adaptable to the guitar. Includes study of tablatures and transcriptions to modern notation. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 410 [510] SURVEY OF ORGAN LITERATURE (3) A study of the literature of the organ from the beginnings of the Baroque Period to the present. Music covered will include that of the early Italian, French, and English schools; French Classical and North German Baroque; J.S. Bach and his followers; French & German opera music of the 19th Century and a survey of organ music of the 20th Century. Prerequisites: MUSC 102; MUSC 232 or consent of instructor. (UG & G)

MUSC 411 [511] SURVEY OF OPERA (3) Study of opera literature of various periods and styles. Prerequisite: Junior or Senior standing or consent of instructor. (UG & G)

MUSC 412 [512] WIND ENSEMBLE (1) Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition Required. Prerequisites: Audition and consent of instructor. (UG & G)

MUSC 413 [513] SYMPHONIC LITERATURE (3) Survey of orchestral music from the Classical Period to the present. Includes symphony, overture and symphonic poem. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 415 [515] THE CONCERTO (3) A survey of the concerto form from its inception to the present. Analysis of stylistic, formal and compositional aspects will be included. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 417 [517] KEYBOARD LITERATURE (3) A survey of piano and organ literature from 1600 to the present. Primarily a lecture demonstration course, but with assigned reading and assigned listening. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 421 [521] AMERICAN MUSIC (3) American music from the Colonial Period to the present. Prerequisite: Junior or senior standing or consent of instructor. (UG & G)

MUSC 427-428 [527-528] JAZZ ARRANGING I, II (3,3) Study and practice of arranging of standard material for Jazz Ensembles. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 429-430 [529-530] JAZZ IMPROVISATION I, II (3,3) Study and practice of improvising in various jazz styles. Prerequisite: MUSC 231-232 or consent of instructor. (UG & G)

MUSC 431 [531] ADVANCED CHORAL AND INSTRUMENTAL ARRANGING (3) Advanced arranging techniques including the scoring of original and other works for various combinations of instruments and/or voices. Prerequisite: MUSC 335, or equivalent, or consent of instructor. (UG & G)

MUSC 432 [532] SEMINAR IN ADVANCED INSTRUMENTAL CONDUCTING AND INTERPRETATION (1) Provides opportunity to study and discuss music literature and performance problems with

nationally known conductors during the music camp. Music selected to be performed by the camp participants will be examined and evaluated in terms of conducting techniques and interpretation. As a part of this process, students will be required to observe and evaluate camp performances. Prerequisite: MUSC 329 or equivalent and/or consent of instructor. (UG & G)

MUSC 435 [535] FORM AND ANALYSIS (3) Analysis of vocal and instrumental literature. Prerequisite: MUSC 232. (UG & G)

MUSC 437 ADVANCED COMPUTER APPLICATIONS (3) Creative use of computer applications: sequencing, notation, synthesis applications, digital audio recording, editing, synchronization with film/music. Prerequisite: MUSC 135.

MUSC 441 CHURCH MUSIC SKILLS (3) Study of skills and techniques required of full-time church musicians, including anthem and service music preparation, rehearsal planning and organization, playing the services of all major denominations, improvisation, transposition and related skills. Prerequisite: MUSA 274 or permission of department chair. (UG)

MUSC 471-479 [571-579] SPECIAL TOPICS IN MUSIC LITERATURE (3) Consideration of a central topic of Music Literature with a different topic selected each semester. May be reelected. Prerequisite: MUSC 232 or consent of instructor. (UG & G)

MUSC 493 [593] INDEPENDENT RESEARCH IN MUSIC LITERATURE (1-4 credits undergraduate; 3 credits graduate) Supervised research and musicological investigation of a selected topic in a written senior thesis. May be repeated for credit. Prerequisites: MUSC 301, MUSC 302, and six hours of Advanced Music History or Literature Courses. (UG & G)

MUSC 498 SENIOR RECITAL FOR MUSIC EDUCATION MAJORS (1) Recital performance for graduation requirement. Prerequisites: Minimum of 6 credits in Private Lessons and approval of Department Chair. Undergraduate credit only. Must be enrolled concurrently in private lessons at the Senior level. Graded under S/U procedure. (UG)

MUSC 499 SENIOR RECITAL FOR PERFORMANCE MAJORS (1) Recital performance for graduation requirement. Prerequisites: Minimum of 6 credits in Private Lessons and approval of Department Chair. Undergraduate credit only. Must be enrolled concurrently in private lessons at the Senior level. Graded under S/U procedure. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions

MUSIC EDUCATION (MUED)

Lower Division

MUED 241 TEACHING GUITAR IN THE CLASSROOM (2) Development of basic performance technique, visualization, repertoire, pedagogy, curriculum, and performance analysis. (UG)

Upper Division

MUED 304 METHODS OF TEACHING MUSIC IN EARLY CHILDHOOD EDUCATION (2) Methods and materials in music education for children ages three through eight in a laboratory setting. Early Childhood Education majors only. Prerequisites: MUSC 101; Concurrent Pre-Primary curriculum ECED 341. Not open to students who have completed MUED 307. (UG)

MUED 305 METHODS OF TEACHING MUSIC IN ELEMENTARY EDUCATION (2) Methods and materials for teaching music in elementary school presented in a laboratory setting. Elementary education majors only. Prerequisites: MUSC 107. Not open to students who have completed MUED 307. (UG)

MUED 306 METHODS OF TEACHING INSTRUMENTAL MUSIC IN ELEMENTARY SCHOOLS (4) Role of instrumental music in elementary school. Normally taken fall semester prior to student teaching. Prerequisites: Music major, Junior standing. Successful completion of Piano Proficiency Test. (UG)

MUED 307 METHODS OF TEACHING VOCAL-GENERAL MUSIC IN THE ELEMENTARY SCHOOL (4) Vocal-general programs in elementary schools: Orff, Kodaly, and Dalcroze techniques and principles with children in a laboratory setting. Normally taken in semester prior to student teaching. Prerequisites: Music major, Junior standing; successful completion of Piano Proficiency Test. (UG)

MUED 308 METHODS OF TEACHING INSTRUMENTAL MUSIC IN SECONDARY SCHOOLS (2) Methods and materials for the instruction

of instrumental music. Concurrent with student teaching. Prerequisite: MUED 306. (UG)

MUED 309 METHODS OF TEACHING VOCAL-GENERAL MUSIC IN SECONDARY SCHOOLS (2) Methods and materials for instruction of vocal-general music. Concurrent with student teaching. Prerequisite: MUED 337; MUED 307. (UG)

MUED 310 INTRODUCTION TO MUSIC IN SPECIAL EDUCATION (3) Curriculum materials and activities addressing the needs of handicapped students; development and adaptation of lesson plans and Individual Education Programs are emphasized. Prerequisites: Normal admission to Teacher Education Program and PSYC 201. Music education majors only. (UG)

MUED 337 TEACHING CHORAL MUSIC IN THE ELEMENTARY AND THE SECONDARY SCHOOL (2) Examination of materials, methods and procedures in organizing school choral groups and in teaching choral music to elementary and secondary students. Prerequisites: MUSC 327. (UG)

MUED 391 STUDENT TEACHING IN ELEMENTARY SCHOOL -- MUSIC (6) Prerequisites: MUED 306, 310, MUSC 307 (Instrumental); MUED 241, 307, 310, 337 (Vocal-General); Piano Proficiency Test; successful completion of NTE and Speech and Hearing Screening. (UG)

MUED 392 STUDENT TEACHING IN THE SECONDARY SCHOOL -- MUSIC (6) Prerequisites: MUED 306, 310, MUSC 307 (Instrumental); MUED 241, 307, 310, 337 (Vocal-General); Piano Proficiency Test; successful completion of NTE and Speech and Hearing Screening. (UG)

MUED 419 [519] WORKSHOP: ASPECTS OF STRING TEACHING (2-6) An extension course to be offered at various locations. The workshop includes private lessons, master classes, supervised laboratory experiences, as well as concerts, lectures and rehearsals designed to enrich the experience of string teachers and those interested in becoming public school string teachers. Sessions will vary in length from one to six weeks with appropriate credit awarded according to course requirements and contact hours. Prerequisite: Fulfillment of all requirements for teacher certification in instrumental music and consent of instructor. (UG & G)

NURSING (NURS)

NURS 330 PROFESSIONAL NURSING: BRIDGE (3) Conceptual framework of Department of Nursing including health, health promotion, and maintenance for clients throughout the lifespan. Prerequisite: Admission to Nursing Major, RN in the State of Maryland. (UG)

NURS 331 PROFESSIONAL NURSING I: INTRODUCTION (2) Introduces the student to the professional role of nursing. Encompasses the conceptual framework of the Department of Nursing. Prerequisite: Admission to the Nursing major. Not open to those who have successfully completed NURS 301. (UG)

NURS 341 ALTERATIONS IN HEALTH (3) Pathophysiologic processes of human illness across the lifespan. Adaptive and maladaptive responses to stress are examined. Prerequisite: Admission to the Nursing major; NURS 331 (can be taken concurrently). (UG)

NURS 343 PHARMACOTHERAPEUTIC AGENTS (2) Pharmacologic agents commonly used in treatment of disease states and the nursing responsibilities involved. Prerequisite: Admission to the Nursing major; NURS 331 and NURS 341 (can be taken concurrently). Not open to those who have successfully completed NURS 303. (UG)

NURS 345 TECHNOLOGY AND THERAPEUTIC INTERVENTIONS (2) Technological, psychomotor and psychosocial skills used by the nurse in the Provider of Care role. Prerequisite: Admission to the Nursing Major; NURS 331 (can be taken concurrently). Not open to those who have successfully completed NURS 307. (UG)

NURS 347 HEALTH ASSESSMENT ACROSS THE LIFESPAN (3) Acquisition of skills for physical and psychosocial health assessment across the lifespan. Prerequisite: Admission to the nursing major; NURS 331, NURS 341, NURS 343 and NURS 345 (can be taken concurrently). Not open to those who have successfully completed NURS 305. (UG)

NURS 351 NURSING PRACTICE I: HEALTH PROMOTION ACROSS THE LIFESPAN (4) Major concepts of health, health promotion and maintenance for clients throughout the lifespan. Initial experience in the provider role of the professional nurse. Prerequisite: Admission to the nursing major; NURS 331, NURS 341, NURS 343, NURS 345, and NURS 347 (can be taken concurrently). (UG)

NURS 353 NURSING PRACTICE II: ADULT HEALTH (5) Nursing care of adults experiencing alterations in health. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisite: Completion of all courses in Junior year, first semester. Not open to those who have successfully completed NURS 313. (UG)

NURS 355 NURSING PRACTICE III: CHILDBEARING FAMILIES (5) Nursing care of childbearing families. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisite: Completion of all courses in Junior year, first semester. Not open to those who have successfully completed NURS 309. (UG)

NURS 385 SEMINAR I (1) Developing collaborative relationships with faculty, peers, and mentors; formulating a plan for professional development; and initiating and presenting a scholarly project. Prerequisite: admission to the UMS cooperative "Bridge" program. (UG)

NURS 404 HEALTH CARE: AN INTERDISCIPLINARY APPROACH (3) Health care in America, exploring societal factors, resources, social policy, health care delivery, legal and ethical issues. Prerequisite: Upper Division Level. Not open to those who have successfully completed NURS 401. (UG)

NURS 406 CULTURAL DIVERSITY AND HEALTH CARE (3) Transcultural health care principles, focusing on cultural influences on biological, psychological, sociological, intellectual and spiritual dimensions of individuals. Historical perspective to contemporary cultural health care. GenEd II.B.3.

NURS 431 PROFESSIONAL NURSING II: RESEARCH (2) Nursing research through preparation of a proposal; qualitative and quantitative approaches and ethical issues. Prerequisite: Completion of all courses in the Junior level; basic statistics (behavioral sciences or biostatistics). Not open to those who have successfully completed NURS 408. (UG)

NURS 433 PROFESSIONAL NURSING III: ISSUES (3) Transition from student to registered nurse; contemporary issues and challenges of professional nursing. Prerequisite: Completion of all courses in the Senior year, first semester. Not open to those who have successfully completed NURS 408. (UG)

NURS 451 NURSING PRACTICE IV: PSYCHIATRIC & MENTAL HEALTH (5) Nursing care of adults experiencing alterations in psychological and/or social behaviors. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisite: Completion of all courses in the Junior level. Not open to those who have successfully completed NURS 315. (UG)

NURS 453 NURSING PRACTICE V: CHILD HEALTH (5) Nursing care of children experiencing alterations in health. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisite: Completion of all courses in the Junior level. Not open to those who have successfully completed NURS 405. (UG)

NURS 455 NURSING PRACTICE VI: COMMUNITY HEALTH (5) Role of the professional nurse as provider and coordinator of care for complex families, aggregates, and communities. Prerequisite: Completion of all courses in the Senior year, first semester. Not open to those who have successfully completed NURS 403. (UG)

NURS 457 NURSING PRACTICE VII: CLINICAL PRACTICUM (2) Provider role of the nurse in a selected clinical environment. Application of critical thinking and therapeutic nursing interventions. Prerequisite: Completion of all courses in the Senior year, first semester. (UG)

NURS 459 NURSING PRACTICE VIII: LEADERSHIP AND MANAGEMENT (4) Leadership roles and management functions of the nurse as coordinator of care for clients across the lifespan in a variety of health care environments. Prerequisite: Completion of all Senior year, first semester; NURS 433, NURS 455, NURS 457 (can be taken concurrently). Not open to those who have successfully completed NURS 409. (UG)

NURS 485 SEMINAR II (1) Develops roles and responsibilities of nursing leaders. Prerequisite: NURS 385. (UG)

NURS 487 SEMINAR III (1) Trends, issues, and roles related to advanced practice nursing. Prerequisite: NURS 485. (UG)

NURS 491 DIRECTED READINGS (1-3) Independent reading designed to explore topics and/or issues of special interest to the practice of nursing. Prerequisite: Completion of all 300 level nursing courses and permission of Chair of the Department. (UG)

NURS 493 INDEPENDENT STUDY (1-3) Directed Study designed to provide an in-depth educational experience in Nursing. Topics related to theory and practice of nursing. Prerequisite: Completion of all 300 level nursing courses or equivalent and permission of Chair of Department. (UG)

OCCUPATIONAL THERAPY (OCTH)

Lower Division

OCTH 101 INTRODUCTION TO OCCUPATIONAL THERAPY: PRINCIPLES AND PRACTICE (2) Occupational therapy and study of its practice, including supervised clinical observation in occupational

therapy settings. Prerequisite: Pre- and Occupational Therapy majors only. (UG)

OCTH 103 LEISURE AND HEALTH ISSUES IN CONTEMPORARY SOCIETY (3) The history and meaning of leisure activity, contemporary issues, and the importance of leisure to health maintenance. Strategies for personally healthy activity. GenEd II.B.3.

OCTH 211 PHILOSOPHY OF OCCUPATIONAL THERAPY (3) Occupation and the impact of information and technology on health and treatment of disability. GenEd I.B. (UG)

OCTH 213 SMALL GROUP DYNAMICS (3) A study of small groups used in therapeutic or health education settings. Lectures will examine group members' and leaders' roles, stages of a group's life, theory of developmental groups, and the structure and function of a variety of small groups used in therapy, education, and community settings. Participatory experiences will supplement lectures to promote personal communication and effectiveness in groups. Prerequisites: SOCI 101, PSYC 101. (UG)

OCTH 216 LIFE SPAN ADAPTATION AND OCCUPATIONS (4) Interactions of biological, sensorimotor, and psychosocial aspects of development with environmental and cultural factors; occupational roles and processes of change. Prerequisites: BIOL 110, PSYC 101, SOCI 101, ENGL 102. (UG)

OCTH 217 TASK ANALYSIS I (4) Beginning development of occupational performance skills necessary for clinical practice. Prerequisites: Concurrent with OCTH 213 and OCTH 216. (UG)

OCTH 218 TASK ANALYSIS II (3) Laboratory experience to develop students' knowledge of the skills necessary in therapeutic media, technology application, job analysis, and health maintenance. Prerequisites: OCTH 213, OCTH 216, OCTH 217. (UG)

OCTH 221 CLINICAL KINESIOLOGY (3) Principles of biomechanics, muscle physiology, joint structure and muscle function, emphasizing palpation of anatomical structures and analysis of movement. Prerequisites: OCTH 217, PHYS 201, BIOL 213. (UG)

Upper Division

OCTH 313 PHYSICAL DYSFUNCTION: NEUROLOGICAL CONDITIONS (3) Etiology, clinical course, management, and prognosis of neurological conditions. Theory and practice applied to clients. Prerequisites: OCTH 211, OCTH 218, OCTH 221; BIOL 214, BIOL 427; to be taken concurrently with OCTH 319. (UG)

OCTH 314 PSYCHOSOCIAL DYSFUNCTION (4) Etiology, clinical course, management, and prognosis of psychiatric conditions. Theory and practice applied to clients. Prerequisites: OCTH 211, OCTH 213, OCTH 218, PSYC 361; to be taken concurrently with OCTH 320. (UG)

OCTH 315 PATHOLOGICAL CONDITIONS (3) Etiology, physiology, performance effects, treatment approaches, precautions and prognosis of medical conditions in clients. Prerequisite: BIOL 214, BIOL 427; to be taken concurrently with OCTH 319 or OCTH 320. (UG)

OCTH 317 PHYSICAL DYSFUNCTION: MUSCULOSKELETAL CONDITIONS (2) Etiology, clinical course, management, and prognosis of musculoskeletal conditions. Theory and practice applied to clients. Prerequisite: OCTH 211, OCTH 218, OCTH 221; BIOL 214, BIOL 427. (UG)

OCTH 318 INDEPENDENT STUDY (1-6) Directed independent study designed to provide students with an in-depth investigation of an area or problem specific to occupational therapy. Consultation and supervision with designated faculty members and/or clinical practitioners. Prerequisites: Undergraduate major in occupational therapy, consent of instructor. May be attempted for a maximum of six credits. (UG)

OCTH 319 PHYSICAL DYSFUNCTION CLINICAL (2) Laboratory and clinical practice in specific evaluation and treatment techniques in physical disabilities. Prerequisites: OCTH 211, OCTH 218, OCTH 221, BIOL 214, BIOL 427; to be taken concurrently with OCTH 313. (UG)

OCTH 320 PSYCHOSOCIAL DYSFUNCTION CLINICAL (2) Laboratory and clinical practice in specific evaluation and treatment techniques in psychosocial occupational therapy. Prerequisites: OCTH 211, OCTH 218, OCTH 213, PSYC 361; to be taken concurrently with OCTH 314. (UG)

OCTH 323 GERONTOLOGICAL OCCUPATIONAL THERAPY (2) Interventions addressing the aging process and pathology in older adults. Prerequisites: OCTH 211, OCTH 216, OCTH 218. (UG)

OCTH 325 PEDIATRIC OCCUPATIONAL THERAPY (4) Etiology, clinical course, management and prognosis of developmental and learning disabilities. Theory and practice applied to children and adolescents. Prerequisites: OCTH 313, OCTH 314, OCTH 315, OCTH 319, OCTH 320; to be taken concurrently with OCTH 326. (UG)

- OCTH 326 PEDIATRIC CLINICAL (2)** Laboratory and clinical practice in specific evaluation and treatment techniques in pediatric occupational therapy. Prerequisites: To be taken concurrently with OCTH 325. (UG)
- OCTH 412 O.T. HEALTH PROMOTION INITIATIVES IN THE COMMUNITY: CLINICAL (2)** Theory, practice, and clinical experience to foster healthy development of individuals, families, and communities. Prerequisites: OCTH 313, OCTH 314, OCTH 319, OCTH 320 OCTH 323. (UG)
- OCTH 428 [528] OCCUPATIONAL THERAPY ORGANIZATIONS IN MODERN SOCIETY (3)** Administration of programs within service delivery systems, considering technological, societal, and economic trends. Prerequisites: OCTH 213, HLTH 207. (UG)
- OCTH 429 SEMINAR IN OCCUPATIONAL THERAPY ADMINISTRATION (1)** Management principles and techniques common to clinical practices. Prerequisites: OCTH 213, HLTH 207; to be taken concurrently with OCTH 428. (UG)
- OCTH 430 RESEARCH METHODS IN OCCUPATIONAL THERAPY (3)** Guided, independent research in topics related to occupational therapy theory and practice. Presentation of introductory materials on research methods. Second writing course. Prerequisites: MATH 237, OCTH 313, OCTH 319, OCTH 314, OCTH 320. Fall. GenEd I.D. (UG)
- OCTH 435 OCCUPATIONAL THERAPY INTERNSHIP I (6-7)** Supervised field work experience in physical and psychosocial dysfunction. Prerequisites: OCTH 313, OCTH 314, OCTH 315, OCTH 317, OCTH 319, OCTH 320, OCTH 323, and permission of department. S/U grading. (UG)
- OCTH 436 OCCUPATIONAL THERAPY INTERNSHIP II (6-7)** Supervised field work experience in physical and psychosocial dysfunction. Prerequisites: OCTH 325-326, OCTH 412, OCTH 428, OCTH 429, OCTH 430, OCTH 435, and permission of department. S/U grading. (UG)
- OCTH 437 SPECIALTY INTERNSHIP (3-7)** Field work experience to meet the student's special interests. Prerequisites: OCTH 436 and permission of department. S/U grading; may be attempted for a maximum of 7 credits. (UG)
- OCTH 470-479 [570-579] SPECIAL TOPICS IN OCCUPATIONAL THERAPY (1-3)** Designed to explore topics of special interest in the theory and practice of occupational therapy. Prerequisite: consent of instructor. May be attempted for a maximum of 3 credits. (UG & G)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

PHILOSOPHY (PHIL)

Lower Division

- PHIL 101 INTRODUCTION TO PHILOSOPHY (3)** An introduction to some fundamental problems of philosophy and to various proposals for the solution of these problems. GenEd II.C.1. (UG)
- PHIL 102 USING INFORMATION EFFECTIVELY IN PHILOSOPHY (3)** Introduction to information gathering, evaluation and communication. Develops critical thinking and problem solving techniques, communication, and team building skills. (UG)
- PHIL 105 INTRODUCTION TO THE STUDY OF RELIGION (3)** A study of various religious explanations and organizations of the cosmos and of human life, drawing on diverse theoretical methodologies. GenEd II.D. (UG)
- PHIL 111 LOGIC (3)** Study of and practice in inductive and deductive reasoning, the composition of argument and demonstration, and the detection of formal and informal fallacies as developed in the Western tradition. GenEd II.C.1. (UG)
- PHIL 201 SOCIAL AND POLITICAL PHILOSOPHY (3)** A consideration of social and political doctrines from both Western and non-Western philosophical perspectives. The approach will be both historical and thematic. Themes will include: the individual and the state, the male-female dialectic, and attitudes toward property. (UG)
- PHIL 204 RACE, CLASS AND GENDER (3)** Social and political philosophy: contemporary American ideas of race, class and gender, with a focus on their interrelatedness. GenEd II.C.3. (UG)
- PHIL 205 WOMEN IN WORLD RELIGIONS (3)** Role of women, both human and divine, in the major Asian and Western religions. GenEd II.D. (UG)
- PHIL 206 JUDAISM, CHRISTIANITY AND ISLAM (3)** History, scriptures, doctrines, practices, and interactions of three monotheistic religions. GenEd II.C.3. (UG)
- PHIL 212 HONORS COURSE: SPECIAL STUDIES IN PHILOSOPHY (3)** Small group discussions and philosophical analysis of selected works not generally available in other electives. Prerequisites: Admission to honors college. (UG)

- PHIL 219 INTRODUCTION TO ASIAN PHILOSOPHY (3)** Examination of the nature of Asian thought through a study of English translations of traditional sources of Indian, Tibetan, Chinese, and Japanese philosophy. GenEd II.D. (UG)
- PHIL 221 ANCIENT GREEK PHILOSOPHY (3)** The origins of Western philosophical thought will be studied in the works of the presocratics, Socrates, Plato, and Aristotle. GenEd II.C.1. (UG)
- PHIL 230 PHILOSOPHY OF LITERATURE (3)** The course undertakes philosophical analysis of literature. A consideration of philosophical orientations in these works will be undertaken. (UG)
- PHIL 251 CONTEMPORARY AFRICAN-AMERICAN THOUGHT (3)** A philosophical examination of the current issues in African-American thought in such fields as religion, politics, education, economics and aesthetics. An effort will be made to determine the place and the role of the contemporary African-American in history. GenEd II.C.3. (UG)
- PHIL 253 CONTEMPORARY ETHICAL PROBLEMS (3)** The course will treat the meaning of moral experience and the moral problems which arise in connection with human sexual integrity, ownership of property, welfare, violence, civil disobedience, punishment, war, and truth telling in social relations and government. GenEd II.B.3.
- PHIL 270-279 PHILOSOPHICAL PERSPECTIVES (3)** The course will consider contemporary issues from the uniquely philosophical perspective to stimulate independent reflection on the part of the student. (UG)

Upper Division

- PHIL 301 [501] PHILOSOPHIES OF INDIA (3)** Examination of major ideas in the Vedic, Epic, Classical darsana, and modern periods. Prerequisite: One lower level course in philosophy or consent of instructor. (UG & G)
- PHIL 302 [502] PHILOSOPHIES OF CHINA AND JAPAN (3)** Examination of some major philosophical systems through selected writings in translation. Prerequisite: One lower level course in philosophy or consent of instructor. (UG & G)
- PHIL 311 SYMBOLIC LOGIC (3)** An introduction to the concepts and methods of symbolic logic. Translation of arguments from English into symbolic notation; methods of establishing the validity of arguments by means of symbolic logic. Discussion of logical notions such as consistency and inconsistency, logical truth, and the philosophy of logic. Prerequisite: PHIL 111 or consent of instructor. (UG)
- PHIL 319 SCIENCE, TECHNOLOGY, AND VALUES (3)** Impact of modern science on various philosophical issues: science and religion, mind and computers, time travel, Einstein's relativity, human freedom, the ethical limits of technology. Prerequisites: One course in philosophy and two courses in science, or consent of instructor. GenEd II.A.2. (UG)
- PHIL 320 PHILOSOPHY OF SCIENCE (3)** Concepts, method and nature of science including induction and theory confirmation, probability, explanation, natural laws, space and time and the objectivity of science. Prerequisites: One course in either philosophy or science. (UG)
- PHIL 321 PHILOSOPHY OF LAW (3)** An examination of the nature and theories of law, the relationship between law and morality, the nature of legal obligation, and the notion of justice. Prerequisites: One lower-division course in Philosophy or consent of the instructor. (UG)
- PHIL 322 [522] HELLENISTIC AND MEDIEVAL PHILOSOPHY (3)** The philosophical schools of the Hellenistic and Roman periods, viz. Stoicism, Epicureanism, Scepticism and Neo-Platonism and the two main Christian philosophies of the Middle Ages, viz., Augustinianism and Thomism. Prerequisite: One lower-division course in philosophy. (UG & G)
- PHIL 324 [524] MODERN PHILOSOPHY (3)** The history of philosophy beginning with Descartes through the 19th century. Prerequisite: One lower-division course in philosophy. (UG & G)
- PHIL 325 [525] SCHOOLS OF CONTEMPORARY PHILOSOPHY (3)** A survey with varying emphasis on a number of such contemporary philosophical positions as pragmatism, phenomenology, logical positivism, the analysts, neo-Aristotelianism, the philosophers of science, and the existentialists. Prerequisite: One lower-division course in philosophy. (UG & G)
- PHIL 326 [526] AMERICAN PHILOSOPHY (3)** The history of the main currents of American philosophical thought as exemplified in such writers as Edwards, Emerson, Pierce, James, Royce, Dewey and Whitehead. Prerequisite: One lower-division course in philosophy. (UG & G)
- PHIL 327 AFRICAN PHILOSOPHY (3)** Examination of major ideas and issues in African Systems of Thought. Prerequisite: One lower-division Philosophy course or consent of instructor. (UG & G)
- PHIL 331 [531] CONCEPTS OF WOMAN: AN HISTORICAL APPROACH (3)** Various concepts which philosophers have used to

define woman. An historical survey approach, with readings from Plato, Aquinas and others, and ending with Beauvoir. Prerequisite: One lower-division course in philosophy. (UG & G)

PHIL 332 FEMINIST PHILOSOPHY (3) Contemporary methods and problems, including redefinition of traditional areas of philosophy and creation of new issues for investigation. Prerequisite: One lower-division Philosophy course or consent of instructor. (UG & G)

PHIL 339 [539] THEORIES OF KNOWLEDGE (3) A historical and systematic approach to the truth value and elements of the forms of human knowledge. The theories of major philosophers will be studied. Prerequisite: One lower-division course in philosophy. (UG & G)

PHIL 341 [511] ETHICS (3) Analysis of readings from the principle classical and contemporary ethical sources, study of the basic moral concepts as found in these sources; applications to contemporary moral concerns. Prerequisite: One lower-division course in philosophy. (UG & G)

PHIL 343 [509] AESTHETICS (3) An analytical and historical examination of concepts of the nature of art, beauty, aesthetic value, aesthetic perception, and of the modes of existence of artifacts. Prerequisite: One lower-division course in philosophy. (UG & G)

PHIL 353 [551] PHILOSOPHY OF RELIGION (3) Exposition of various approaches to the philosophy of religion with an analysis of the major issues on which they differ and agree. Prerequisite: Two previous courses in philosophy or religion. Not open to those who have completed PHIL 451. (UG & G)

PHIL 355 [555] INTERPRETATIONS OF THE BIBLE: NEW TESTAMENT (3) Major themes of the Biblical Literature, and of its religious, philosophical and cultural implications. Prerequisite: One lower-division in philosophy or religion. (UG & G)

PHIL 357 [557] TOPICS IN COMPARATIVE RELIGION (3) Study of a number of the world's major religious traditions emphasizing specific philosophical and psychological problems encountered therein. Prerequisite: At least one lower-division course in philosophy, religion or history. (UG & G)

PHIL 361 [561] ETHICS OF MEDICINE AND THE LIFE SCIENCES (3) A search for guidelines in such moral problems as abortion, the care of the dying, organ transplants, informed consent in therapy and experimentation, adequate health care and its just distribution, control of human behavior by drugs, surgery, etc., test-tube reproduction, population control, genetic engineering and counseling. Prerequisite: One lower-division course in philosophy or consent of instructor. (UG & G)

PHIL 371 [563] BUSINESS ETHICS (3) Economics is one of the "moral sciences" in so far as it deals with an important sphere of human activity which intends a good. This course will institute a philosophical reflection on economic ideas as they appear in the three main categories of opinion, viz., conservative, liberal and radical. Attention will be drawn to the epistemological, ethical and metaphysical presuppositions of these traditions. Prerequisite: A lower-division course in philosophy or consent of instructor. (UG & G)

PHIL 380-389[580-589] PHILOSOPHICAL TOPICS (3) Courses offered under this title will be of variable content. Topics of traditional philosophical interest or of philosophical problems in other areas of knowledge or of contemporary interest will be offered. Prerequisite: One lower-division course in philosophy. (UG & G)

PHIL 413 [513] PHENOMENOLOGY (3) An examination of phenomenology as both a philosophical method and philosophical position. Themes to be considered include consciousness, the body, time and the experience of others. Primary course readings in the works of Husserl, Heidegger, Sartre, Merleau-Ponty. Prerequisite: Two previous courses in philosophy. (UG & G)

PHIL 417 [517] EXISTENTIALISM (3) Some of the major existentialist philosophers will be studied, e.g., Kierkegaard, Nietzsche, Heidegger, Sartre, Beauvoir. The philosophical themes of transcendence, the absurd, estrangement and anxiety will be considered. Prerequisite: Two previous courses in philosophy. (UG & G)

PHIL 440-449 [540-549] PHILOSOPHICAL SYSTEMS (3) The study of a major philosophical system or position, classical or modern, and of its important proponents. Prerequisite: Two previous courses in philosophy. (UG & G)

PHIL 460-469 WRITING SEMINAR IN PHILOSOPHICAL STUDIES (3) The course concentrates on a specific issue or thinker within the philosophical tradition and on developing the skills necessary to do quality written work in the discipline. Possible topics include Plato, Aristotle, Hegel, Concepts of Space & Time, Dimensions of Freedom. Prerequisites: ENGL 102 and two courses in philosophy. (UG)

PHIL 470-479 [570-579] PHILOSOPHICAL PROBLEMS (3) A consideration of one of the perennial interests of philosophy. Prerequisite: Two previous courses in philosophy. (UG & G)

PHIL 495 [595] RESEARCH TUTORIAL IN PHILOSOPHY (3) Directed readings and research leading to a thesis paper under one or more members of the Department. Prerequisites: Senior majors in Philosophy or Senior non-majors, submission in advance of an outline of proposed research, permission of proposed director and department chair. (UG)

PHYSICAL EDUCATION (PHEA)

Lower Division

PHEA 101-223 These courses include a variety of sport skills for non-majors. For specific titles, credits, descriptions, and prerequisites, consult Physical Education Department. (UG)

PHYSICAL SCIENCE (PHSC)

Lower Division

PHSC 101 PHYSICAL SCIENCE I (4) Fundamental principles of selected topics from physics and chemistry, emphasizing construction of concepts from experimental evidence. May not be used for the Natural Science Major. GenEd II.A.1.(UG)

PHSC 103 PHYSICAL SCIENCE II (4) Fundamental concepts of atoms, molecules, energy, states of matter, and processes involved in phase transitions integrating chemistry, earth science, and physics through application to interdisciplinary environmentally oriented topics. One hour lecture, four hours lecture-lab. Prerequisite: PHSC 101 or permission of instructor. (UG)

PHSC 151 ENERGY AND POLLUTION (3) Basic forms of energy: thermal, electrical, nuclear, solar. The relationship between energy and pollution. The problems of energy and pollution. High school algebra is suggested. Two hours of lecture and two hours of laboratory per week. (UG)

PHSC 161 GENERAL ASTRONOMY I (4) Science of astronomy; investigations and theories concerning the solar system, galaxies and the universe. Three lecture hours and one two-hour laboratory period. High school algebra suggested. GenEd II.A.1.(UG)

PHSC 195 COURSE RESEARCH IN 100-LEVEL COURSES (1)(UG)

PHSC 234 STILL PHOTOGRAPHY (3) Emphasis will be on the production of photographs, rather than the mastery of many techniques. Camera operation, developing, printing and other topics according to student interest. (UG)

PHSC 295 COURSE RESEARCH IN 200-LEVEL COURSES (1)(UG)

Upper Division

PHSC 303 [503] EARTH-SPACE SCIENCE (3) Physical science principles applied in the study of earth and space. Emphasis on experimental and discovery approaches. Prerequisite: PHSC 101 (UG & G)

PHSC 360 INTERNSHIP IN PHYSICAL SCIENCE (2-3) Practical experience in Physical Science in industry or public or private agencies through the University's Internship/Cooperative Education Program. Special permit and fee required. May be repeated once for credit. Prerequisites: Major in Natural Science, Junior or Senior standing, 2.7 QPA. Consent of major advisor.

PHSC 361 GENERAL ASTRONOMY II (3) A study of the stars, stellar systems, galaxies, and cosmology. Emphasis will be placed on the determination of the distance scale and modern trends in astronomy including methods used on space probes. Prerequisite: PHSC 161 or acceptable substitute. (UG)

PHSC 401 [501] ADVANCED LABORATORY IN PHYSICAL SCIENCE (2) Exacting laboratory work of an advanced nature under the guidance of the Physical Sciences staff. Each student will present and defend his or her work at a seminar. May be repeated for a maximum of six credits. Prerequisite: Consent of instructor. (UG&G)

PHSC 405 [505] FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3) Principles of astronomy, geology and related earth sciences. Methods of investigation employed by earth scientists. Observations in the planetarium and field studies in the Baltimore area. Two lecture hours and one two-hour laboratory period. No credit allowed if student has taken PHSC 161 and/or PHSC 121. Prerequisite: PHSC 101 or equivalent. (UG&G)

PHSC 411 [511] PHYSICAL SCIENCE FOR TEACHERS (3) An in-service course for teachers in the elementary and/or junior high school designed to develop physical science concepts. Emphasis will be placed on developing these concepts through laboratory work. Prerequisites: Teaching experience. (UG&G)

PHSC 470-479 [570-579] SPECIAL TOPICS IN PHYSICAL SCIENCE (1-4) The study of special topics in the areas of physical science. Special topics will be determined by their need for study and relevance to existing courses. (UG&G)

PHSC 490 INDEPENDENT STUDY IN PHYSICAL SCIENCE (1-4) Individual and supervised research in selected areas of the Physical Sciences. Topics may be either theoretically or experimentally oriented. May be repeated for a maximum of six credits. Prerequisites: Junior status and one course in PHSC. (UG)

PHSC 491 DIRECTED READINGS (1-4) Independent reading in an area selected by the student in consultation with the instructor. May be repeated for a maximum of six credits. Prerequisites: Junior status and one course in PHSC. (UG)

PHSC 494 TRAVEL STUDY (1-3) Investigation of field problems and phenomena. May be repeated for maximum of three credits. (UG)

PHSC 495 [595] COURSE RESEARCH IN 400-LEVEL COURSES (1) (UG&G)

PHYSICS (PHYS)

Lower Division

PHYS 100 UNDERSTANDING PHYSICS (3) Designed for non-science majors. An inquiry into intuitive, philosophical, historical and scientific understanding of principal concepts of classical and modern physics. Elementary algebra is used in this course but emphasis is placed on physical understanding. Demonstrations and short illustrative experiments will be a part of the course. Three lecture hours. GenEd II.A.1. (UG)

PHYS 102 INTRODUCTION TO PHYSICS (3) Designed for students who will later take General Physics and whose background in the physical sciences indicated a need for further preparation. The mathematical expression of basic physical relationships. A placement test is available from the Physics Department. (UG)

PHYS 106 INTRODUCTION TO ELECTRONICS (3) Digital and analog electronics including techniques, devices, and laboratory practices. Prerequisite: High school algebra recommended. (UG)

PHYS 131 LIGHT AND COLOR (4) Some aspects of light and color and of vision will be examined on a factual and descriptive basis. Predominantly qualitative explorations will be made of the origin of light, of its wave and particular behavior, of the polarization of light, of lasers and holography, of the origin and physical basis of color, and of the physics of vision. This course in liberal arts physics is offered for curious inquirers who have had minimal contact with physics. Three lecture hours and two laboratory hours per week. GenEd II.A.1. (UG)

PHYS 135 INTRODUCTION TO HOLOGRAPHY (4) Creative use of the holographic medium along with study of appropriate scientific principles and aesthetic values. Behavior of waves including water, sound and electromagnetic. Optics of lenses and mirrors. Lasers, holography and experimental techniques of making holograms. Three lecture hours, two laboratory hours. GenEd II.A.1. (UG)

PHYS 141 PHYSICS OF SOUND AND MUSIC (3) Study of sound and its production by various instruments, the human voice included. Physical interpretations of concepts such as noise, pitch, mechanical and acoustic waves and oscillations, loudness, harmonics and timbre, scales and temperament, etc. (UG)

PHYS 185 INTRODUCTORY HONORS SEMINAR IN PHYSICS (1) This seminar is intended for freshmen and sophomores who have demonstrated exceptional ability in the sciences and will involve them directly with current ideas and research in physics. Classical physics, quantum physics, relativity, and the new astronomy will be covered. Prerequisite: Permission of the Physics Department. (UG)

PHYS 202 GENERAL PHYSICS B (5) One semester General Physics with special emphasis on motion including kinematics and dynamics of linear and angular motion. (Not open to those who have successfully completed PHYS 101 or 201.) GenEd II.A.1. (UG)

PHYS 203 TOPICS IN PHYSICS FOR BIOLOGY MAJORS (5) Topics will be selected from these areas: 1) mechanical and thermal properties of matter; 2) forms of energy and conversion; 3) optics; 4) waves; 5) electromagnetics. Students who may wish to seek advanced degrees in biology, dentistry, medicine or related fields should enroll in PHYS 211-212 or 241, 242, 243. Prerequisite: MATH 115 or good standing in high school algebra and trigonometry. (UG)

PHYS 211-212 GENERAL PHYSICS I, II (4, 4) For Arts and Sciences, Biology, and Natural Science Majors: mechanics, heat, light, electricity, magnetism and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 115, or good standing in high school algebra and trigonometry. GenEd II.A.1. (UG)

PHYS 231 INTRODUCTION TO ASTROPHYSICS (3) Celestial mechanics, stellar interiors, stellar evolution and cosmology. Prerequisite: One year of high school physics or PHYS 212 or PHYS 242 at least concurrently. (UG)

PHYS 241, 242, 243 GENERAL PHYSICS I, II, III (4, 4, 3) For Chemistry, Mathematics, and Physics Majors: mechanics, and the conservation laws, gravitation, electricity, magnetism, DC and AC circuits, waves, introduction to physical optics. Two or three lecture hours and one three hour lab per week. Prerequisite: MATH 273 or concurrently. PHYS 241 and PHYS 242 fulfill GenEd II.A.1. (UG)

PHYS 244 MICROCOMPUTER APPLICATIONS IN THE PHYSICAL SCIENCES (3) Assembling your own personal computer and using it for data acquisition and analysis, numerical solutions, simulations, and special projects. Prerequisites: PHYS 211 or 241; COSC 165, or consent of instructor. (UG)

PHYS 295-296 RESEARCH PROBLEMS IN PHYSICS (1-3) Individual project in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, the student must write a formal research paper on the work done. Students may register for this more than once but at different levels. Prerequisite: Permission of the instructor who will direct the proposed work. (UG)

Upper Division

PHYS 303 HISTORY OF SCIENCE (3) This course will present a general overview of the development of scientific knowledge from ancient to modern times. It will examine how our modern scientific world view has been shaped by major periods of scientific development, particularly in the sixteenth and seventeenth centuries involving primarily astronomy and physics, and in the nineteenth and twentieth including geology, biology, and psychology as well. Attention will be given to the relations between science and culture, religion, technology, and public policy. Prerequisite: One course in the biology, chemistry, or physics department. (UG)

PHYS 307 [507] INTRODUCTION MATHEMATICAL PHYSICS (3) As the mathematical maturity of the students will allow, selected topics will be examined such as the generalized expressions for forces and potentials, vector analysis, applications of Fourier series and complex variables, and solutions of the harmonic oscillator and wave equations. Three lecture hours. Prerequisite: PHYS 242, MATH 373 or concurrently. (UG&G)

PHYS 311 [511] MODERN PHYSICS (4) Special relativity, the quantum theory, atomic structure and spectra, and nuclear structure and reactions are the main topics covered by the course. Other topics which may be covered involve molecular, solid state, and high energy physics. Four lecture hours. Prerequisite: MATH 274, PHYS 212 or PHYS 242. (UG&G)

PHYS 335 [533] BASIC ELECTRONICS (4) Circuit components, characteristics of semi-conductors, electrical measurements, method of circuit analysis, electronic devices. Three lecture hours and one three-hour laboratory period. Prerequisite: PHYS 212 or PHYS 242 or consent of instructor. (UG&G)

PHYS 337 [534] DIGITAL ELECTRONICS (4) Subjects covered will be basic concepts of digital electronics such as gates, logic modules, truth tables, digital codes, sequential systems, semi-conductor memories, decade counters, etc. The laboratory program is designed to give students firsthand experience on the material covered in lecture using integrated circuits and LED display systems. Two hours lecture, three hours laboratory. Prerequisite: MATH 115 or equivalent. (UG&G)

PHYS 341-342 [541-542] INTERMEDIATE PHYSICS LABORATORY I, II (3, 3) First Semester: The measurement of several fundamental physical constants. Exploration of classical and modern research methods: Lasers, holography, optical and nuclear spectroscopy. Second Semester: Several advanced experiments, a research project. Familiarization with machine shop procedure, vacuum and other experimental techniques. Five laboratory hours. Prerequisite: PHYS 311 or concurrently. (Lab II: Prerequisite: PHYS 341) (UG&G)

PHYS 351 [550] MECHANICS (3) Systems of coordinates and transformations, kinematics, Newtonian dynamics, linear systems and oscillators, central force motion, generalized coordinates, and Lagrange's equations. Optional topics: Hamiltonian's principle, perturbation techniques, non-linear behavior, coupled oscillations. Three lecture hours. Prerequisites: PHYS 243 or PHYS 212, MATH 274. (UG&G)

PHYS 352 [552] THERMODYNAMICS AND KINETIC THEORY (3) Principles and laws of classical thermodynamics applied to simple irreversible processes, including chemical, elastic, electric and magnetic phenomena; thermodynamic functions and Maxwell's relations; the conservation equations in elementary kinetic theory; fluctuations; and irreversible transfer effects. This course may be taken concurrently with PHYS 243 or by permission. Three lecture hours. Prerequisites: PHYS 212 or PHYS 243, MATH 274. (UG&G)

PHYS 354 [554] ELECTRICITY AND MAGNETISM I (3) Electrostatics, magnetostatics and electromagnetic radiation. Among the topics normally covered are the Divergence Theorem and Stokes' Theorem, electrostatics in free space and in dielectric materials, the Bio-Savart Law, the magnetic vector potential, inductance and electromotance, magnetic materials, Maxwell's Equation in free space and in materials. Other topics sometimes covered include wave guides, Snell's Laws, radiation from antennas, radiation from accelerated point charges. Three lecture hours. Prerequisite: MATH 274, PHYS 212 or PHYS 242. (UG&G)

PHYS 361 OPTICS FUNDAMENTALS (4) Geometric, wave and quantum optics: Lenses and mirrors, lens aberrations and design, optical instruments, interference diffraction, polarization, absorption and scattering, lasers, holography, and the dual nature of light. Three lecture hours and one three-hour laboratory each week. Prerequisites: PHYS 243, COSC 165, and PHYS 341 (or permission of the instructor). (UG)

PHYS 370-379 SELECTED TOPICS IN CONTEMPORARY ASTROPHYSICS (3) Variable content including the origin of the elements, and radio, microwave, and UV instruments and sources. Prerequisite: PHYS 231 or PHSC 161 plus one year of college general physics. (UG)

PHYS 391 INTERNSHIP IN PHYSICS (2-3) Practical experience in industry, public and private agencies. Not for major or minor credit. Special permit and fee required. May be repeated once for credit. Prerequisite: 2.7 QPA, Junior or Senior standing. Major in Physics, Consent of Department. (UG)

PHYS 395-396 [595-596] RESEARCH PROBLEMS IN PHYSICS (1-3) Individual project in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, the student must write a formal research paper on the work done. Students may register for this more than once but at different levels. Prerequisite: Permission of the faculty member who will direct the proposed work. (UG & G)

PHYS 411 GRAVITATION, RELATIVITY, AND COSMOLOGY (3) Development of Einstein's general theory of relativity and its relevance to astrophysics: theory of gravity, relativistic effects of massive stars, hole, gravity waves, cosmology. Given alternate years. (UG)

PHYS 421 FUNDAMENTAL PARTICLES (3) Experimental and theoretical physics of particles and fields: particle production and detection, relativistic kinematics, symmetry, conservation laws, fundamental interactions, phenomenology and contemporary models. Prerequisites: PHYS 307 and PHYS 311. (UG)

PHYS 435 [535] ELECTRONICS (3) Principles of transistors with emphasis on their design and construction and an introduction to logic circuits. Two lecture hours and one two-hour laboratory. Prerequisite: PHYS 335. (UG & G)

PHYS 437 [537] INTRODUCTION TO MICROPROCESSOR-BASED DIGITAL SYSTEMS (3) An introductory course on basic microcomputer concepts. Topics covered include basic structure and organization of microcomputers, digital logic design, assembly language programming, memory elements, and applications. Hardware oriented experiments will be conducted providing practical experience in interfacing the microcomputer to a variety of instruments and input-output devices. Two hours lecture and two hours laboratory. Prerequisite: PHYS 307. (UG & G)

PHYS 445 [545] LASERS & HOLOGRAPHY (3) The wave front reconstructions, laser, theory, the properties and making of holograms, and the applications of lasers and holography will be covered. Special projects will be assigned to students depending upon their individual theoretical and experimental background. Prerequisite: PHYS 243 or consent of instructor. (UG & G)

PHYS 451 [551] MECHANICS II (3) Continuation of PHYS 351. Inertia and stress tensors; continuum mechanics, rotation of a rigid body; theory of small vibrations; basic postulates of the special theory of relativity; relativistic dynamics; lattice vibrations. Other special topics of advanced mechanics. Prerequisites: PHYS 351 and PHYS 307. (UG & G)

PHYS 453 [553] PHYSICAL OPTICS (3) Electromagnetic theory of light, wave solutions, interference, diffraction, scattering, radiation from coherent and incoherent sources, elementary theory of masers and lasers. Three lecture hours. Prerequisite: PHYS 354 or consent of instructor. (UG & G)

PHYS 454 ELECTRICITY AND MAGNETISM II (3) Solutions of Maxwell's equations in complex media; wave guides, boundary value problems (Snell's and Fresnel's laws), Hertzian oscillator; introductory electrodynamics. Prerequisite: PHYS 354. (UG)

PHYS 455 [555] INTRODUCTORY QUANTUM MECHANICS (3) The Schrödinger equation, states of one particle in one dimension, potential barrier problems in one dimension, the harmonic oscillator, system of particles in one dimension, motion in three dimensions, angular momentum, spin, application to atomic physics. Prerequisites: PHYS 351, MATH 275. (UG & G)

PHYS 456 [556] INTRODUCTORY TO STATISTICAL MECHANICS (3) Distribution functions, microcanonical, canonical and grand canonical ensembles, the partition function and thermo-dynamics relations. Fermi-Dirac and Bose-Einstein statistics, some simple models and applications, the Maxwell-Boltzmann transport equation and the hydrodynamic equation, transport coefficients. Three lecture hours. Prerequisite: PHYS 455. (UG & G)

PHYS 457 SOLID STATE PHYSICS (3) Crystal structure, wave propagation in periodic structures, the Fermi gas, energy bands, magnetism, are presented as a central theoretical core for the study of the solid state. Some of the basic

models, concepts, and manifest properties of solids are also included. Prerequisites: PHYS 311, PHYS 351, and PHYS 354. (UG)

PHYS 459 [559] NUCLEAR PHYSICS (3) A lecture and problem course dealing at the introductory level with experimental and theoretical methods for the study of nuclear structure. Topics to be covered include: properties of nuclei, electromagnetic transition and beta decay; nuclear models, nuclear reactions, and two body interactions. Given in alternate years. Prerequisite: PHYS 311; PHYS 307 or consent of instructor. (UG & G)

PHYS 461 ELECTRO-OPTICS (4) Optical sources and detectors, electronics, controls and modulators. Radiant energy and power measurements, laser instrumentation, fiber optics, photo-active devices. Three lecture hours and one three-hour laboratory each week. Prerequisites: PHYS 361, PHYS 335, and PHYS 341-342 (or permission of the instructor). (UG)

PHYS 485-486 [585-586] PHYSICS SEMINAR I, II (1, 1) Students participate in colloquia on topics of current interest in physics research under guidance of instructor. One lecture hour. Prerequisite: Senior standing or consent of instructor. (UG & G)

PHYS 490 [590] INDEPENDENT STUDY IN PHYSICS (1-4) Prerequisite: At least Junior status and one course in the Physics Department. May be repeated for a maximum of six credits. (UG & G)

PHYS 491 [591] DIRECTED READINGS (1-4) Prerequisites: At least junior status and one course in the Physics Department. May be repeated for a maximum of six credits. (UG & G)

PHYS 495-496 RESEARCH PROBLEMS IN PHYSICS (1-3) Individual projects in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, the student must write a formal research paper on the work done. Students may register for this more than once but at different levels. Prerequisite: Permission of the instructor who will direct the proposed work. (UG)

PHYS 499 HONORS THESIS IN PHYSICS (1-4) Writing of an honors thesis based on independent research done under the direction of a staff member. Prerequisites: Consent of instructor and open only to advanced honors candidates. May be repeated for a maximum of six credits. (UG)

PORTUGUESE (PORT)

Lower Division

PORT 101-102 PORTUGUESE ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1. (UG)

PORT 201-202 PORTUGUESE INTERMEDIATE I, II (3, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: PORT 101-102 or equivalent. GenEd II.C.3. (UG)

POLITICAL SCIENCE (POSC)

Lower Division

POSC 101 INTRODUCTION TO POLITICAL SCIENCE (3) The origins of modern governments. The nature of constitutions and constitutionalism. A definition and interpretation of politics. GenEd II.C.2. (UG)

POSC 103 AMERICAN NATIONAL GOVERNMENT (3) Structure and functions of the government of the United States and the problems involved in the extension of the scope of democratic government in our contemporary life. GenEd II.B.2. (UG)

POSC 105 GOVERNMENTS OF THE WORLD (3) Comparative survey of governments and political systems in number of major countries in world today. Attention given to political behavior, structures, processes, & policies. Not open to students who successfully completed POSC 137. GenEd II.D. (UG)

POSC 107 INTRODUCTION TO INTERNATIONAL RELATIONS (3) An introductory examination of principles of legal, political, and social relations among nations, coordination and conflict in the international system, global issues such as trade, security, war and peace, power and formation of foreign policy. GenEd II.D. (UG)

POSC 207 STATE GOVERNMENT (3) Historical background, state constitutions, and the legislative, executive and judicial branches of government. Problems of state administration and federal-state relations. Prerequisite: None. GenEd II.B.2. (UG)

POSC 209 INTRODUCTION TO LAW (3) The legal process in the United States for the liberal arts student. Prerequisite: None. GenEd II.B.2. (UG)

POSC 212 HONORS IN POLITICAL SCIENCE (3) Supreme Courts as a political institution, including personal policy preferences of Justices in regard to civil rights and liberties. Prerequisite: special permit and admission to Honors College. GenEd II.B.2. (UG)

Upper Division

- POSC 303 [503] THEORY OF INTERNATIONAL POLITICS (3)** The theories of mutual relations of states. Elements of national power; international politics as a struggle for power. Restraints upon the struggle for power. Prerequisite: HIST 242 or POSC 107 or consent of instructor. (UG&G)
- POSC 305 [505] URBAN GOVERNMENT AND POLITICS (3)** The political history of American cities from the eighteenth century through the recent reform movement. City charters, home rule, types of executives, political machines. The metropolitan area. Prerequisite: POSC 103. (UG&G)
- POSC 307 [507] CONTEMPORARY INTERNATIONAL POLITICS (3)** Computer simulation (conducted jointly with colleges and universities throughout the world) used to study the formulation and implementation of contemporary international politics. Prerequisites: POSC 107 or POSC 303, or consent of instructor. (UG&G)
- POSC 337 [508] COMPARATIVE GOVERNMENT OF FOREIGN POWERS: THE WESTERN WORLD (3)** An examination of the problems of modernization and stable constitutional rule in England, France, Italy, and Germany. Prerequisite: POSC 101 or POSC 105 or consent of instructor. (UG&G)
- POSC 339 [509] COMPARATIVE POLITICAL SYSTEMS (3)** The course will attempt to bring together the analytical concepts and methodological techniques that may be applied to the study of political systems in a comparative sense. Prerequisite: POSC 103 or POSC 105 or consent of instructor. (UG&G)
- POSC 340 COMPARATIVE PUBLIC POLICY (3)** Comparative study of the policy problems and processes of the United States, Canada, and Western European countries, focusing on the growing convergence of public policy making in the states of the developed world. Prerequisites: POSC 101, POSC 103, POSC 105 or consent of instructor. (UG)
- POSC 341 [511] AFRICAN GOVERNMENT AND POLITICS (3)** An examination of the rise of African nationalism and the emergence of new states in Africa. Attention is directed to the influence of colonial rule and traditional political institutions on the development of party politics, patterns of government, and Pan-African ideas. A trend towards the military rule, political problems of the independent Africa, and the efforts of each country to build a strong and viable political system are emphasized. Prerequisite: Any Political Science course or consent of instructor. (UG&G)
- POSC 351 [551] THE GOVERNMENT AND POLITICS OF LATIN AMERICA (3)** An examination of the informal and formal rules of the political "game" in Latin America with an emphasis on four types of political systems found in contemporary Latin America: democratic reformist, revolutionary, populist, and military authoritarian. Prerequisite: POSC 101 or POSC 105 or consent of instructor. (UG&G)
- POSC 355 [512] THE LATIN AMERICAN POLICY OF THE UNITED STATES (3)** An analysis of the Latin American Policy of the United States from the Monroe Doctrine to the present. Emphasis will be on historical, political, economic, and security factors in the ebb and flow of inter-American relations. Prerequisite: POSC 101 or POSC 105 or consent of instructor. (UG&G)
- POSC 359 [559] POLITICAL AND SOCIAL ASPECTS OF REVOLUTION (3)** Nature and function of violence and revolution in modern social systems. Prerequisite: POSC 101 or POSC 105 or consent of instructor. (UG&G)
- POSC 361 [513] POLITICAL BEHAVIOR (3)** The purpose of this course is to introduce the student to the substantive theory and methodology of behavioral analysis. Topics include voting behavior, elite behavior, and an analysis of the role of pressure groups and public opinion in the American political system. Prerequisite: Junior standing and nine hours of political science, or consent of instructor. (UG&G)
- POSC 375 [514] PUBLIC ADMINISTRATION (3)** Administration as a central element of contemporary society, with special reference to the problems of government organization, control, personnel, finance, and public relations. Prerequisite: POSC 103. (UG&G)
- POSC 381 [515] THE PRESIDENCY (3)** A discussion of the origin of the office, the selection of the President and policymaking in the executive branch. Prerequisite: POSC 103. (UG&G)
- POSC 383 [516] CONGRESS (3)** An investigation of the relations of Congress with the other branches of government and with the political parties and interest groups. The course also examines the relationships between a member of Congress and his constituency as well as the internal dynamics of Congress. Prerequisite: POSC 103. (UG&G)
- POSC 385 MODEL ORGANIZATION OF AMERICAN STATES (3-6)** Structure and function of OAS, the inter-American system, and U.S. Latin American policy. Students represent member states of the OAS in a mock General Assembly in Washington, D.C. May be repeated for a maximum of 6 credits. Prerequisites: sophomore standing and written consent of instructor. (UG&G)
- POSC 417 [517] AMERICAN POLITICAL PARTIES (3)** Origin and development of the American two-party system. The activities of pressure groups and organizations, and their effects upon the party system. Prerequisite: POSC 103 or consent of instructor. (UG&G)
- POSC 418 [518] CONSTITUTIONAL LAW I (3)** First half of sequence on origins of the Constitution, the separation of powers, and federalism. Prerequisites: POSC 101 or POSC 103. (UG&G)
- POSC 419 [519] CONSTITUTIONAL LAW II (3)** The second half of a two-part sequence covering the major issues of Constitutional Law. This course will focus primarily on the activities of Supreme Court in the area of civil rights and civil liberties. Prerequisites: POSC 101 or POSC 103. (UG&G)
- POSC 425 LEGAL THEORY (3)** This course will focus on the salient arguments for and against the major legal issues of our time. Readings, drawn from time-honored writers of the past, are designed to evoke continuous discussion and debate on contemporary problems in the law. Prerequisites: Junior standing and nine credits of political science, or consent of instructor. (UG)
- POSC 427 [527] POLITICAL THEORY I (3)** Political thought in the West from the Greeks to the end of the sixteenth century. Prerequisite: POSC 101 or consent of instructor. (UG&G)
- POSC 428 [528] POLITICAL THEORY II (3)** Political philosophers and their writings since the sixteenth century. Attention given to the conflict of ideologies in the twentieth century. Prerequisite: POSC 101 or consent of instructor. (UG&G)
- POSC 430 [530] POLITICAL IDEAS OF SOCIALISM AND COMMUNISM (3)** This course deals with selected topics in the political theory of socialism and communism including socialism and the ancient regimes, socialism and political organization, Russian, Leninist and Stalinist theory, and socialist ideas in the post cold war period. Prerequisite: POSC 428. (UG&G)
- POSC 432 [532] UNITED STATES-RUSSIAN RELATIONS (3)** Relations between the U.S. and Russia. Emphasis on Soviet and post-Soviet periods, nationalities, democratization, and creation of market economics. Prerequisite: Any 100 level political science course or consent of instructor. (UG&G)
- POSC 435 [535] AFRICA IN WORLD POLITICS (3)** The role of African nations in the nuclear age, and their efforts to achieve unity. Prerequisite: POSC 341 or consent of instructor. (UG&G)
- POSC 437 [537] CASTRO AND THE CUBAN REVOLUTION (3)** A discussion of the factors that led up to the Castro Revolution in 1959 and the subsequent impact of the creation of the first socialist state on the Western Hemisphere. Prerequisite: POSC 355 or POSC 351 or consent of instructor. (UG&G)
- POSC 444 [451] CONTEMPORARY UNITED STATES-WESTERN EUROPEAN RELATIONS (3)** Emphasis will be on NATO, the European Economic Community, and the Anglo-American efforts to create an Atlantic partnership between Europe and the United States. Prerequisite: POSC 103 or POSC 105, or consent of instructor. (UG&G)
- POSC 445 [545] UNITED STATES FOREIGN POLICY IN SOUTH ASIA (3)** A discussion of American foreign policy in South Asia mainly since 1945. Emphasis will be on India and Pakistan. Prerequisite: POSC 107 or POSC 303 or HIST 109, or consent of instructor. (UG&G)
- POSC 450 [550] GROUP POLITICS AND PUBLIC OPINION (2)** The role of pressure groups and public opinion in the American political system. Prerequisite: Junior standing and nine hours of political science or consent of instructor. (UG&G)
- POSC 455-456 [555-556] SEMINAR: INTERNATIONAL LAW AND ORGANIZATION I, II (3, 3)** An examination of the theories and the development of international law up to the present. The character of the modern state system, the role of international organizations, and international law and resort to force. Prerequisites: 15 credits POSC, including POSC 303, or consent of instructor. (UG&G)
- POSC 457 [557] SEMINAR: USE OF FORCE IN INTERNATIONAL LAW (3)** The course will examine the use of force as an instrument of foreign policy by various states and survey the legal restraints on its use. Prerequisites: 15 credits in POSC including 303, or consent of instructor. (UG&G)
- POSC 459 SIMULATION AND GAMES IN POLITICAL SCIENCE (3)** Political decisions using rational choice and game theory. Discussing voting methods, public goods, and paradoxes of collective choice using computer simulation. Prerequisite: One upper-division (300 or 400) Political Science course or consent of instructor. (UG&G)
- POSC 461 [561] RESEARCH METHODS IN POLITICAL BEHAVIOR (3)** The major emphasis in this course will be on the use of quantitative techniques in political research. Topics include survey research, the use of computers, and statistical analysis. Prerequisite: Any course at 100 level. (UG&G)
- POSC 465 EDITORIAL WORK — TOWSON JOURNAL OF INTERNATIONAL AFFAIRS (1)** One to three per semester — 3 semester limit) Members of the Editorial Board of The Towson Journal of International

Affairs prepare the issues of that Journal under the supervision of the faculty advisors. Admission by consent of the instructor. Graded under S/U procedure. (UG)

POSC 467 POLITICS AND THE BUDGETARY PROCESS (3) Analysis of the budgetary process. Not open to students who have successfully completed this course as a special topic POSC 470-479 course). Prerequisite: POSC 375 or consent of instructor. (UG&G)

POSC 470-479 [570-579] SPECIAL TOPICS IN POLITICAL SCIENCE (3) An examination of current topics in political science. The content of the course will depend upon mutual faculty and student interest. Prerequisite: Any 100-level POSC course or consent of instructor. (UG&G)

POSC 482 [582] SEMINAR IN POLITICAL SCIENCE (3) Various methods and techniques of research in political science, culminating in the preparation of a seminar paper. Prerequisite: Fifteen credits in political science, or consent of instructor. (UG&G)

POSC 483 [583] SEMINAR POLITICS AND THE NEWS MEDIA (3) Focuses on the relationship between the government and the news media. Considers such topics as White House operations, the First Amendment, government efforts to control the news, and efforts by the media at self-regulation. Prerequisites: 15 credits in POSC including an upper division course, or consent of instructor. (UG&G)

POSC 485 [585] SEMINAR: DEMOCRATIC THEORY SEMINAR (3) Traces democratic theory from its 16th century origins and analyzes variants which have been proposed since that time. Prerequisites: 15 credits in POSC including POSC 428, or consent of instructor. (UG & G)

POSC 486 SEMINAR: JUSTICE AND THE LAW (3) Central legal, political and moral questions concerning justice and the law, discussion on justice as an achievable goal in human society, particularly in the modern democratic state. Prerequisites: Minimum of 15 credits in POSC including POSC 418 or 419, or consent of instructor. (UG & G)

POSC 488 SEMINAR: TOPICS IN PUBLIC POLICY (3) A senior level seminar in the field of public policy, focusing on policy areas of contemporary interest and significance. Prerequisite: 15 credits in POSC or consent of instructor. (UG & G)

POSC 490 [590] INDEPENDENT STUDY (1-3) Individual and supervised study in selected areas of political science. Course may be repeated for a maximum of 16 credits. Admission by consent of instructor. (UG & G)

POSC 491 [591] SEMINAR: CONTEMPORARY U.S. FOREIGN POLICY (3) An examination of the contemporary nature, basis, and instruments of American foreign policy. Formulation and implementation of American foreign policy will also be examined. Prerequisites: 15 credits in POSC including POSC 107 or 303, or consent of instructor. (UG & G)

POSC 493 [593] INTERNSHIP (3-9) This course is designed to familiarize the students with the practical working of government institutions. The flexibility in time and credit arrangements will allow a variety of political experiences in which students combine theory and practice. No more than 3 credits may be earned in any one semester. Prerequisites: Junior/Senior standing and consent of instructor. (UG & G)

POSC 498 DIRECTED READINGS IN POLITICAL SCIENCE (1-3) Readings and research in preparation for the writing of a thesis or other research paper in political science under the supervision of one member of the political science faculty. This course must be taken in advance of the Honor Thesis course. Prerequisites: 15 crs in Political Science, minimum average of 3.5 in POSC and an overall QPA of 3.25. Consent of instructor. (UG)

POSC 499 HONORS THESIS (3) Research and writing of thesis directed by a faculty member in a chosen area of specialization. Prerequisites: 18 credits in Political Science. Directed Readings in Political Science, 3.5 average in Political Science and an overall QPA of 3.25 and consent of instructor. (UG)

PSYCHOLOGY (PSYC)

Lower Division

PSYC 101 INTRODUCTION TO PSYCHOLOGY (3) Methods and principles. Attention to: measurement, experimentation, sensation, remembering, personality, adjustment, development, and individual differences. GenEd II.C.2. (UG)

PSYC 102 HONORS INTRODUCTION TO PSYCHOLOGY (3) Methods and principles. Attention to: measurement and experimentation, psychobiology, sensation and perception, learning and memory, motivation and emotion, personality, adjustment, abnormality and psychotherapy, development and individual differences. Honors College Course. Special permit only. GenEd II.C.2. (UG)

PSYC 201 EDUCATIONAL PSYCHOLOGY (3) The learning process and related concepts; human development; individual differences; measurement and evaluation; personality and adjustment. Prerequisite: PSYC 101 or 102. (UG)

PSYC 203 HUMAN DEVELOPMENT (3) A study of research and theories related to the overall development of the human throughout the life cycle with emphasis on the interaction of physiological, personality, and social components of development. Prerequisite: PSYC 101 or 102. GenEd II.B.2. (UG)

PSYC 204 HONORS HUMAN DEVELOPMENT (3) An in-depth study of research and theories related to the overall development of the human throughout the lifespan, with an emphasis on the interaction of physical, psychological, and social components. Honors College Course. Prerequisite: PSYC 101 or 102. (UG)

PSYC 205 INTRODUCTION TO THE HELPING RELATIONSHIP (3) Current concepts of the helping relationship and an exploration of the conditions that facilitate its effectiveness. Prerequisites: PSYC 101 or 102 and psychology major or minor planning to enter one of the helping professions, or consent of the department. Not open to students who have completed PSYC 425. (UG)

PSYC 206 APPLIED PSYCHOLOGY (3) Psychologists' contributions to education, medicine, law, mental health and business. Application to problems in these areas. Lectures and field trips. Prerequisite: PSYC 101 or 102. (UG)

PSYC 209 CONSUMER BEHAVIOR (3) Basic psychological concepts concerning consumer behavior such as the cognition, perception, learning, attitudes, cognitive dissonance, risk-taking, motivation, and personality of the buyer. Emphasis on the interrelation of economics and sociocultural factors on consumer decision making, including recent research findings and marketing applications. Prerequisite: PSYC 101 or 102. (UG)

PSYC 211 CHILD PSYCHOLOGY (3) An introduction to and general survey of theories and research in child behavior. Development of major psychological functions with emphasis on application of principles in teaching and parenting. Psychology majors and minors will not receive credit for this course; majors and minors should take PSYC 203. Prerequisite: PSYC 101 or 102. (UG)

PSYC 212 BEHAVIORAL STATISTICS (4) Distributions and graphs, notation, levels of measurement, percentiles, measures of central tendency and variability, principles of probability, the normal curve, standard scores, sampling theory, hypothesis testing, significance of differences, correlation and prediction, computation on computer terminals, Chi square, Non-parametrics, One-Way analysis of variance. Not open to those who have completed PSYC 111. GenEd I.C. (UG)

PSYC 230 ADJUSTMENT AND GROWTH (3) A survey of problems encountered in the course of normal human development, intimate relationships, emotional challenges, important life choices, and developing a satisfying personal style of life. Clarification of opinions, attitudes and values in relationship to these issues. Psychology majors and minors will not receive credit for this course. Prerequisite: PSYC 101 or 102. (UG)

Upper Division

PSYC 305 [510] PSYCHOLOGY OF LEARNING (3) Analysis of selected problems in both human and animal learning including reinforcement, punishment, verbal learning and verbal behavior. Prerequisite: Nine hours of PSYC or consent of instructor. (UG&G)

PSYC 309 [512] PSYCHOPHARMACOLOGY (3) A systematic investigation of the effects of drugs on behavior. Drug classification, historical aspects, methodological considerations, uses in treatment, drug abuse, and related topics will be considered. Prerequisite: Nine hours of PSYC or consent of instructor. (UG&G)

PSYC 311 [513] BEHAVIOR MODIFICATION (3) Examination and application of the basic principles of the experimental analysis of behavior, with an emphasis on the applied aspects of this modern discipline to schools, jobs interpersonal relations and self-control. Prerequisite: Nine hours of PSYC or consent of instructor. (UG&G)

PSYC 314 EXPERIMENTAL PSYCHOLOGY (4) The experimental method and its application to recent problems in psychological research; introduction to experimental design and inference. Three hours lecture, two hours laboratory per week. Carries credit as an Advanced Writing Course. Prerequisites: Either ENGL 102 or ENGL 190; either PSYC 101 or PSYC 102; and PSYC 212. Not open to those who have completed PSYC 261. GenEd I.D. (UG)

PSYC 315 [515] MOTIVATION (3) Interaction between physiological, neurological, and pharmacological aspects of motivation with environmental influences such as culture, learning and social dynamics. Issues in human motivation and emotion which will be emphasized are aggression, sex, achievement (competence) and cognitive-social influences. Prerequisite: Six hours of PSYC. (PSYC 203 and Junior standing recommended.) (UG&G)

PSYC 317 [517] SENSATION AND PERCEPTION (3) A systematic investigation on the basic senses such as vision, audition, taste, smell, and touch will be undertaken. The organization of sensory input will also be

- emphasized. Both human and non-human data will be presented. Prerequisite: Nine hours of PSYC or consent of instructor. (UG&G)
- PSYC 325 [524] SOCIAL PSYCHOLOGY (3)** The structure and function of groups. Recent advances in sociology, anthropology and psychiatry as related to psychology. Prerequisite: Six hours of PSYC. (UG&G)
- PSYC 327 INDUSTRIAL PSYCHOLOGY (3)** Theories, psychological concepts, and research applied to industrial and organizational settings. Prerequisite: PSYC 101 or 102. (UG)
- PSYC 328 [518] COMPUTER IMPACT ON PSYCHOLOGY AND HUMAN BEHAVIOR (3)** Effect of computers on psychological training, research methods, clinical and counseling practices, theory development, psychological content, and human behavior. Examination of psychologically oriented computer programs (e.g., clinical interviewing). Computer experience not necessary. Prerequisite: Six hours of PSYC or consent of instructor. (UG&G)
- PSYC 330 [530] PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3)** Individual differences in human traits and characteristics; methodology, basic principles, and major findings in research. Prerequisites: PSYC 101 or 102 and PSYC 212. (UG&G)
- PSYC 341 [540] ENVIRONMENTAL PSYCHOLOGY (3)** The relationship between the physical and social environment and behavior, i.e., places, spaces, and people. How man/woman construes, interprets, comprehends, feels about the environment, and how the environment functions as a reflection of human needs and values. Topics include environmental design, crowding, privacy, human territoriality, personal space. Prerequisite: PSYC 101 or 102. (UG&G)
- PSYC 350 [550] PERSONALITY (3)** Theoretical and practical approaches to the study of personality. Introduction to psychodynamics and to methods and materials of assessment. Prerequisite: Six hours PSYC. (UG&G)
- PSYC 361 [542] ABNORMAL PSYCHOLOGY (3)** Disordered personal reactions to life. Organic and functional phenomena plus therapeutic techniques. Prerequisite: Nine hours of PSYC including PSYC 203 or consent of instructor. (UG&G)
- PSYC 381 [581] READINGS IN PSYCHOLOGY (1-2)** A survey of relevant research literature under the guidance of a staff member who will direct the students' research. May be attempted for a maximum of 4 credits. Prerequisite: Nine hours of PSYC and consent of instructor. (UG&G)
- PSYC 383 PROCTORING IN PSYCHOLOGY (3-6)** Students serve as teaching apprentices or proctors in a course which they have already completed (such as Introduction To Psychology), and which they must relearn to 100% mastery. Students will manage the learning and evaluate individual progress of the members of the class assigned to them. The experience includes guidance, support, and motivation of the assigned students, all in a supervised situation. Only three credits may be earned in one semester. May be attempted for a maximum of six credits. For six (6) credits, the student must serve as a proctor for two separate courses. Prerequisites: Successful completion of five or more Psychology courses or: introductory, educational and child, or adolescent psychology and principles of education and be a junior or a senior plus permission of instructor. Grading of S/U option only. (UG)
- PSYC 403 [503] PSYCHOLOGY OF INFANCY AND CHILDHOOD (3)** An advanced course reviewing historical and current changes in the areas of infancy and childhood. Emotional, cognitive and individual development will be covered in depth. Emphasis is placed on critical analysis of research theory construction and methods. Not open to students who have taken ECED 413. Prerequisite: PSYC 203. (UG&G)
- PSYC 404 [504] ADOLESCENT PSYCHOLOGY (3)** Physical, emotional, intellectual development during adolescence; social development and heterosexuality; adolescent personality; problems of adjustment; juvenile delinquency. Prerequisite: PSYC 203. (UG&G)
- PSYC 405 [505] THE PSYCHOLOGY OF AGING (3)** A study of the changes in learning, emotions, personality and social behavior and the impact of culture and attitude on the aging process. Prerequisite: Six hours of PSYC including PSYC 203. Students should be aware of how to read and understand psychology journals and how psychological research is conducted. (UG&G)
- PSYC 409 [509] ORGANIZATIONAL PSYCHOLOGY (3)** Human relations in the work setting. Topics will include theory and research concerning leadership, job satisfaction and motivation, organizational communication, group dynamics, and organizational change. Prerequisite: Six hours of PSYC. (UG&G)
- PSYC 411 [511] TESTS AND MEASUREMENTS (3)** Psychological and educational testing and evaluation. The construction, administration, interpretation and use of the various evaluative devices of aptitude and achievement. Prerequisites: PSYC 101 or 102 and PSYC 212. (UG&G)
- PSYC 421 [521] APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND CLASSROOM ENVIRONMENTS (3)** Practical application of operant techniques to child management and family functioning. Course will deal with behavioral analysis, behavior modification programs and family contracting both at school and at home, with emphasis on learning basic technical skills. Prerequisite: PSYC 211. (UG&G)
- PSYC 429 [529] INTRODUCTION TO THE COUNSELING OF MINORITY GROUPS (3)** An introduction to the study of the counseling function with emphasis upon minority groups needs, counselor attitudes and techniques. Prerequisite: PSYC 101 or 102 and psychology major or minor planning to enter one of the helping professions or graduate student in Guidance and Counseling or consent of department coordinator. (UG&G)
- PSYC 430 SYSTEMS AND TECHNIQUES OF PSYCHOTHERAPY (3)** Review and application of current theoretical approaches to the helping relationship. Prerequisites: PSYC 205 and either PSYC 230 or PSYC 361 or PSYC 640. (UG)
- PSYC 431 [531] GROUP DYNAMICS (3)** Intensive study of group interactions with emphasis upon reciprocal group influence of behavior. Prerequisite: PSYC 325 or consent of instructor. (UG&G)
- PSYC 433 GROUP PSYCHOTHERAPY INTERNSHIP (3)** Supervised experience in use of group intervention techniques. Students will counsel groups of troubled adolescents. Supervision will focus on both group and individual dynamics. Prerequisite: PSYC 431, admission to Clinical Concentration Program. (UG)
- PSYC 435 [535] INTERNSHIP IN PSYCHOLOGY (3-6)** Placement in a community service agency to familiarize the student with its current practices. Supervised client contact will be provided. May be attempted for a maximum of 12 credits but only 6 credits can apply to the major; the other 6 credits will be used as general electives. Prerequisites: 23 hours of psychology, PSYC GPA 2.8 minimum, and consent of instructor. (UG&G)
- PSYC 439 [539] THE INITIAL INTERVIEW (3)** Clinical observation and practicum experience. Focus on interviewer and interviewee dimensions and relationship with patients. Use of tapes, seminars and individual supervision. Prerequisite: PSYC 205, and admission to Clinical Concentration Program. (UG&G)
- PSYC 447 [547] SEX DIFFERENCES; PSYCHOLOGICAL PERSPECTIVES (3)** Sex role/personality development is examined from various perspectives: social, cultural, evolutionary, and biological. Changing conceptions with regard to women, their roles and self-concepts, are emphasized within the overall context of sex differences and similarities in behavior. Prerequisite: PSYC 203 or permission of instructor. (UG&G)
- PSYC 449 [549] PSYCHOLOGY OF LESBIAN CULTURE (3)** Impact of culture on development of a lesbian identity within a psychological framework. Prerequisite: two courses in Psychology or Women's Studies or consent of instructor. (UG)
- PSYC 451 [551] INTRODUCTION TO THE EXCEPTIONAL CHILD (3)** Children with a typical, physical, mental, social and emotional development, including the physically handicapped, the mentally retarded, the gifted, and emotionally disturbed children. Prerequisite: PSYC 201 or PSYC 203 or PSYC 211. (UG&G)
- PSYC 453 [553] ISSUES IN MENTAL HEALTH INTERVENTION (1-2)** Readings, lectures, and seminars relating to psychological emergencies and the modes of intervention during psychological crises. May be attempted for a maximum of 4 credits. Prerequisite: PSYC 205, PSYC 454 concurrent, admission to Clinical Concentration Program. Grading of S/U option only. (UG&G)
- PSYC 454 INTERNSHIP IN PSYCHOTHERAPY (4-12)** Techniques of psychotherapeutic intervention. Students will see patients in psychotherapy under intensive supervision. Seminars and individualized readings. May be attempted for a maximum of 12 credits. Prerequisite: PSYC 453 concurrent and admission to Clinical Concentration Program. (UG)
- PSYC 457 GENDER IDENTITY IN TRANSITION (3)** Psychological consequences of changing definitions of femininity, masculinity, and personhood will be examined using recent theories of gender identity formation. Concepts such as androgyny, sex-role transcendence and future shock will be related to psychological adaptation to social change. Prerequisites: PSYC 315 or PSYC 447 or consent of instructor. (UG)
- PSYC 460 [560] ETHOLOGY AND COMPARATIVE PSYCHOLOGY (3)** A survey of the major behavioral adaptations in non-human and human species, within the framework of evolutionary theory, ethology, and experimental psychology. Three hours of lecture a week. Prerequisite: Nine hours of PSYC or consent of instructor. (UG&G)
- PSYC 461 [561] COGNITIVE PSYCHOLOGY (3)** This course will deal with the nature of the cognitive processes, an analysis of the organization of cognitive abilities, and problems in cognition. Theoretical viewpoints will be explored, including those of Piaget, J. P. Guilford, Ausubel, Lewin, Skinner. A comparison among theories will be made as they relate to the thinking processes. Prerequisite: PSYC 203, PSYC 211 or with consent of instructor. (UG&G)

PSYC 465 [565] PHYSIOLOGICAL PSYCHOLOGY (3) This course is concerned with an introduction to the physiological bases of behavior. The topics to be considered are basic neuroanatomy and neurophysiology, sensory and motor systems, motivational systems, and "higher order" behavioral systems. Three hours of lecture per week. Prerequisite: Nine hours of PSYC or consent of instructor. (UG&G)

PSYC 467 [567] MIDLIFE DEVELOPMENT (3) A study of adult behavior between the ages of 18 and 60. The developmental stages of young adulthood, adulthood, and middle age will be discussed along with topics pertinent to each of the levels such as leaving and becoming emancipated from the family; the transition and adjustment to marriage and work; and bridging the gap between ideals and actual fulfillment. Prerequisite: PSYC 203. (UG&G)

PSYC 470-479 [570-579] SPECIAL TOPICS (1-3) Survey and critical evaluation of modern literature pertaining to selected problems in Psychology. May be attempted in a different topic for a maximum of 12 credits. Prerequisite: Consent of instructor. (UG&G)

PSYC 480 [580] SYSTEMS OF PSYCHOLOGY (3) Schools of psychology with their theoretical and methodological approaches. Prerequisites: At least a junior psychology major and consent. (UG&G)

PSYC 485 [585] EXPERIMENTAL DESIGN (4) Design and analysis — Analysis of variance (completely randomized design, repeated measurement designs, etc.), multiple comparisons, nonparametrics, general problems related to sampling, experimental effects, etc. Prerequisite: PSYC 212 or consent of instructor. (UG&G)

PSYC 491 [591] INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3) An opportunity for especially qualified students to undertake research problems according to their interest and training under the direction of a staff member. May be attempted for a maximum of 12 credits but only 6 credits can apply to the major; the other 6 credits will be used as general electives. Prerequisite: PSYC 314 and consent of instructor. (UG&G)

PSYC 499 SENIOR THESIS IN PSYCHOLOGY (4) Independent research on special problems in Psychology or closely related fields. Prerequisites: PSYC 314, PSYC 485, Honors approval. (UG)

Graduate Division

See TU Graduate School Catalog for course descriptions.

RUSSIAN (RUSS)

Lower Division

RUSS 101-102 RUSSIAN ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation, elementary conversation; composition and translation. GenEd II.C.1. (UG)

RUSS 201-202 RUSSIAN INTERMEDIATE I, II, (3, 3) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: RUSS 101-102 or equivalent. GenEd II.C.3. (UG)

SECONDARY EDUCATION (SCED)

Upper Division

SCED 301 FIELD EXPERIENCES IN SECONDARY EDUCATION (3) Experiences in observing and studying school activities directly related to classroom instruction and pupil learning; observing and analyzing teacher roles, student roles and instructional environment. Emphasis is placed on direct experience in a variety of school settings. Prerequisite: PSYC 201. (UG)

SCED 319 SURVEY OF EDUCATIONAL PROGRAMS (3) Survey of educational programs and services K-12. Combines theoretical aspects of ELED 311 The Child in the Elementary School Curriculum and SCED 341 Principles of Secondary Education. Open only to those students in art, dance, music, physical education, health, or media specialists, whose majors lead directly to certification in elementary and secondary education. Prerequisite: PSYC 201 or concurrently, and written permission, chair Department of Secondary Education. (UG)

SCED 341 PRINCIPLES OF SECONDARY EDUCATION (4) Philosophy and purposes of secondary education; nature of secondary education programs; principles of teaching and learning; basic techniques in instruction. A field experience to schools is required and will necessitate travel time before and after class. To be taken the semester prior to the methods course. Students in approved certification programs leading to the bachelor's degree must enroll for four credits. Prerequisites: Junior standing, PSYC 201 (or taken concurrently), taken concurrently w/SCED 460, and written permission of the chair of Secondary education. (UG)

Methods courses in each subject are not necessarily offered every semester. It is the responsibility of the student to meet with his or her secondary education advisor to determine when he or she will take the teaching methods course.

SCED 353 TEACHING MODERN FOREIGN LANGUAGE IN THE SECONDARY SCHOOL (3) Aims and purposes of foreign language instruction; current curricular trends, including the importance of modern language teaching practices. Open only to seniors, who plan to teach foreign language, with consent of instructor. Prerequisites: 2.5 GPA in major field, SCED 341 and written permission from Chair, Secondary Education. (UG)

SCED 355 TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (3) Objectives, curriculum, materials and instructional procedures in the teaching of social studies. Open only to seniors immediately prior to student teaching and to others with equivalent backgrounds and objectives. Prerequisites: 2.5 GPA in major field; SCED 341, SCED 460, and written permission from Chair, Secondary Education. (UG)

SCED 357 TEACHING ENGLISH IN THE SECONDARY SCHOOL (3) Language arts as taught in secondary schools. Open only to seniors immediately prior to student teaching and to others with equivalent backgrounds and objectives with consent of instructor. Prerequisites: 2.5 GPA in major field; SCED 341, SCED 460, and written permission from Chair, Secondary Education. (UG)

Student Teaching

The following student teaching courses provide practical experiences in observation, participation, and student teaching in public school classrooms under the guidance of master teachers and a university supervisor. Prerequisites: PSYC 201, SCED 319 or SCED 341, SCED 460, ISTC 269, SPED 301, an appropriate methods course, satisfactory completion of the General Knowledge and Communication Skills subtests of the National Teachers Exam, completion of the Speech and Hearing Screening, completion of GPA requirements, written permission from the students major department and the Center for Applied Skills in Education (CASE). All secondary education students and postbaccalaureate students will student teach at both the middle school and high school level the same semester. All student teaching experiences in secondary education result in an "S" or "U" grade.

SCED 383 STUDENT TEACHING IN SECONDARY EDUCATION — ENGLISH (12) (UG)

SCED 384 STUDENT TEACHING IN SECONDARY EDUCATION — FRENCH (12) (UG)

SCED 385 STUDENT TEACHING IN SECONDARY EDUCATION — GEOGRAPHY (12) (UG)

SCED 386 STUDENT TEACHING IN SECONDARY EDUCATION — GERMAN (12) (UG)

SCED 389 STUDENT TEACHING IN SECONDARY EDUCATION — HISTORY (12) (UG)

SCED 394 STUDENT TEACHING IN SECONDARY EDUCATION — SPANISH (12) (UG)

SCED 396 STUDENT TEACHING IN SECONDARY EDUCATION — SOCIAL SCIENCE (12) (UG)

SCED 399 DIFFERENTIATED STUDENT TEACHING — SECONDARY (1-8) Student teaching experiences in addition to those in SCED 3918 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the student's area director; written permission, Center for Applied Skills in Education (CASE). (UG)

SCED 401 ANALYZING STUDENT TEACHING (3) Analysis of and development of solutions for problems in pupil behavior, curriculum, evaluation and instructional procedures. Secondary teaching philosophies and strategies based upon identified needs determined as a result of the student teaching experience will be explored in depth. Open to students concurrent with or following student teaching. (UG)

SCED 418 YOUNG ADULT LITERATURE (3) Examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent. (UG)

SCED 457 [557] METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3) Teaching teachers methods of teaching English as a second language. Attention is given to the use of visuals, contractive analysis, drill techniques, and other methods and resources. Prerequisite: Teaching experience or consent of instructor. (UG&G)

SCED 458 [558] USING WRITING AS A LEARNING TOOL IN THE SECONDARY SCHOOL (3) Strategies for using writing to learn content in all disciplines; examination of the writing process — diagnosis, pre-writing, drafting, revision, evaluation, and publication. Prerequisite: SCED 341 or SCED 319 or consent of instructor. (UG&G)

SCED 460 [560] USING READING AND WRITING IN THE SECONDARY SCHOOLS (3) General developmental reading skills; identification, diagnosis and remediation of reading problems; comprehension, vocabulary building, work-study skills. Prerequisites: SCED 341 or concurrently; written permission, Chair, Department of Secondary Education. (UG&G)

SCED 461 [561] TEACHING READING IN THE SECONDARY CONTENT AREAS (3) Teaching reading study skills leading to reading efficiency and problem solving associated with specific subject matter content. Prerequisite: SCED 460. (UG&G)

SCED 463 [563] DEVELOPMENTAL READING FOR THE EARLY ADOLESCENT (3) Methods of designing and teaching developmental reading programs for the middle or junior high school student. Attention to the following: providing for individual differences, teaching students to read critically, developing and extending reading interests. Prerequisite: SCED 460 or equivalent reading methods course. (UG&G)

SCED 470-489 [570-589] SPECIAL TOPICS IN SECONDARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Secondary or Adult Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate coordinator. Each topic may be taken as a separate course. (UG&G)

SCED 494 [594] TRAVEL AND STUDY IN SECONDARY EDUCATION (1-6) Study abroad of educational facilities, programs or practices, or selected projects in education topics. By special arrangement with program chair and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit. (UG&G)

SCED 495 [595] INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Consent of Chair of Secondary Education. Graduate credit by consent of Graduate Program Coordinator only. (UG&G)

SCED 496 [596] INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4) An opportunity reading in selected areas of Secondary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the department to qualified students. Prerequisite: Obtain consent of chair of Secondary Education. Graduate credit by consent of graduate Program Coordinator only. (UG&G)

Graduate Division

See TU Graduate School Catalog for course descriptions.

SCIENCE EDUCATION (SCIE)

Upper Division

SCIE 371 [551] TEACHING SCIENCE IN EARLY CHILDHOOD (2) The course is designed to familiarize the student with appropriate methods and materials in science for the young child. Emphasis will be on interdisciplinary approach. Prerequisite: ECED 341 or concurrently. (UG&G)

SCIE 376 [576] TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3) Application, analysis, and integration of science teaching skills in the elementary classroom. Field experience in local schools. Taken concurrently with BIOL 303 and PHSC 303. (UG&G)

SCIE 380 [580] TEACHING SCIENCE IN THE SECONDARY SCHOOL (3) Selection of appropriate content, methods and evaluation techniques, analysis of textbooks and resource materials for teaching science in the middle and high schools. Must be taken the semester prior to student teaching. (UG&G)

SCIE 393 STUDENT TEACHING IN SECONDARY EDUCATION-SCIENCE (12)

SCIE 421 FIELD COURSE IN SECONDARY SCIENCE TEACHING METHODS (2) Analysis and evaluation of current materials and techniques in secondary science teaching. To be taken concurrently with student teaching at off-campus center. Prerequisite: SCIE 380 and must be student teaching. (UG)

SCIE 470-475 [570-575] SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER I-VI (1, 2, or 3) Three different modules of science instruction will be offered each semester for teachers of primary and intermediate grades. The course will emphasize instructional strategies in both the processes and content of the science. A student may elect to take 1, 2, or all 3 modules for 1, 2, or 3 credit hours orientation. Thereafter, each module will meet once a week for four weeks. Each meeting will consist of approximately four hours laboratory work. Prerequisite: Teaching experience in the elementary schools. (UG&G)

SOCIOLOGY (SOCI)

Lower Division

SOCI 101 INTRODUCTION TO SOCIOLOGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior. GenEd II.B.2. (UG)

SOCI 102 HONORS INTRODUCTION TO SOCIOLOGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior. Honors College Course. Special Permit Only. GenEd II.B.2. (UG)

SOCI 197 HONORS SEMINAR IN COMMUNITY POWER ANALYSIS (3) A multi-disciplinary investigation in applied social science of the major components necessary to successful metropolitan problem solving. Prerequisites: Admission to the Honors College Program. (UG)

SOCI 210 SOCIOLOGY OF SPORT (3) Critical examination of the role of sport in society. Course material will transcend prevalent stereotypes and myths of sport and analyze significant realities of the culture, social and corporate organization, major social processes, and relations of class, race, and gender in contemporary society. GenEd II.B.3. (UG)

SOCI 241 BLACKS IN AMERICA: MYTHS AND REALITY (3) Prevailing myths regarding black society, development of such myths and the reality which contradicts them. GenEd II.C.3. (UG)

Upper Division

SOCI 301 THE FAMILY (3) The family as the basic group in human societies; its development; its relation to other social institutions; the family in modern industrial societies. Prerequisite: SOCI 101. (UG)

SOCI 311 [511] INDIVIDUAL AND SOCIETY (3) A social psychological approach to the inter-relationships of the individual and his/her social and cultural environment; behavioral characteristics resulting from social experience. Prerequisite: SOCI 101. (UG&G)

SOCI 312 THE CONTEMPORARY AMERICAN MALE (3) Analysis of men in contemporary society; traditional and changing definitions of masculinity, how they are portrayed in advertising; men and work, fatherhood, divorce, gays, blacks, reaction to changing roles of women. Prerequisite: SOCI 101. (UG)

SOCI 313 INTRODUCTION TO SOCIAL PSYCHOLOGY (3) A general introduction to the inter-relationships between social organization and individual human behavior. Examination of social factors in the emergence of consciousness, self, personality and interpersonal relations. Prerequisite: SOCI 101. (UG)

SOCI 315 [515] COMMUNICATIONS AND SOCIAL ORDER (3) Role of communications in social control; coercion, manipulation and enlightenment in society through primary and secondary communication. Prerequisite: SOCI 101. (UG&G)

SOCI 320 MILITARY SOCIOLOGY (3) Examination of social concerns related to maintaining a large standing military force with volunteers. Issues of race and gender, with questions of military service as an obligation and continuance of civilian control, will be addressed. Prerequisite: SOCI 101. (UG)

SOCI 322 [522] SOCIOLOGY OF WAR AND PEACE (3) A broad ranging examination of a variety of issues related to war and peace from a sociological perspective... the nature and causes of war, behavior in battle, mechanisms of securing peace, the relationship between armed forces and society. Prerequisite: SOCI 101. (UG&G)

SOCI 323 [523] SOCIAL CHANGE (3) A sociological analysis of the sources, processes and consequences of social change. Prerequisite: SOCI 101. (UG&G)

SOCI 325 [525] CROWDS, MOBS, AND RIOTS (3) Study of unorganized and organized groups and their impact on society: crowds, mobs, riots and other processes of disruptive and constructive change. Prerequisite: SOCI 101. (UG&G)

SOCI 327 [527] URBAN SOCIOLOGY (3) Survey of the theoretical and sociological conceptualizations of modern western industrial cities. Prerequisite: SOCI 101. (UG&G)

SOCI 329 [529] DEMOGRAPHY (3) Social, economic, and political problems related to changes, distribution and movement of population; analysis of contemporary population trends in the U.S. and the world. Prerequisite: SOCI 101. (UG&G)

SOCI 330 VOCATIONAL REHABILITATION (3) Sociological perspective on the problem of fitting the worker disadvantaged for any reason into the occupational structure of the industrialized society. Includes treatment of the physically and educationally handicapped as well as those whose delinquency, family, minority or other experiences inhibit their capacity for normal entry into and pursuit of occupations with stability and mobility. Prerequisite: SOCI 101. (UG)

SOCI 331 [531] ORGANIZATIONS (3) Structure and functioning of large scale organizations; formal and informal aspects of bureaucracies in business, government, politics, education and other institutional spheres of society. Prerequisite: SOCI 101. (UG&G)

SOCI 332 [532] SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS (3) Sociological literature on career choice and training patterns of occupational success and failure, professionalization process as it affects all

occupations, role conflicts, regulation of behavior by the occupation and profession itself. Prerequisite: SOCI 101. (UG & G)

SOCI 333[533] POLITICAL SOCIOLOGY (3) Contemporary relevance of the fundamental ideas regarding the relationship of the social and political systems; the significance of social and political democratization; class struggles and revolution; the influence of government bureaucracy. Prerequisite: SOCI 101. (UG & G)

SOCI 334 [534] INDUSTRIAL SOCIOLOGY (3) Sociological analysis of corporate and labor organization; internal organization; relationship to each other; impact on the workers in them; relationship to government and the total society. Treats issues such as changing managerial techniques, worker discontent and conditions for organizational and technological innovation. Prerequisite: SOCI 101. (UG & G)

SOCI 335 [535] MEDICAL SOCIOLOGY (3) A study of social and cultural perspectives on illness; demographic trends; the health professions; institutions for the delivery of health care services. Prerequisite: SOCI 101. (UG & G)

SOCI 339 [539] COMMUNITY ORGANIZATION (3) The organization of the community as a vehicle for identifying and meeting human needs; processes and techniques of community planning and development, traditional and contemporary. Prerequisite: SOCI 101. (UG & G)

SOCI 341 [541] CLASS, STATUS AND POWER (3) An examination of major theories and significant research on socially structured inequality in modern and traditional societies. Prerequisite: SOCI 101. (UG & G)

SOCI 343 [543] MINORITY GROUPS (3) An examination of inter-group life as an aspect of society; conflicts between races, ethnic groups, and minorities; prejudice, segregation and integration. Prerequisite: SOCI 101. (UG & G)

SOCI 349 SOCIAL PROBLEMS (3) Theoretical and empirical understanding of the sociological approach to contemporary social problems such as alcoholism, drug abuse, rape, homosexuality, poverty, family disorganization, violence. Prerequisite: SOCI 101. (UG)

SOCI 351 [551] SOCIAL DEVIANCE (3) Deviance as an aspect of social living; the problem of understanding conformity and deviance; identification of deviants; society's response to deviant behavior. Prerequisite: SOCI 101. (UG & G)

SOCI 353 [553] CRIMINOLOGY (3) The nature of crime; factors underlying criminal behavior; police, courts, law, and correctional institutions. Prerequisite: SOCI 101. (UG & G)

SOCI 354 [554] INTRODUCTION TO CRIMINAL JUSTICE (3) The history, the present structure, the functions and the contemporary problems of the police, prosecution, courts, corrections, probation and parole. In addition, a brief introduction to law as an element of social control will be given. Prerequisite: SOCI 101. (UG & G)

SOCI 355 [555] JUVENILE DELINQUENCY (3) A study of delinquency; the process of socialization and delinquent behavior in society; prevention and treatment of delinquency. Prerequisite: SOCI 101. (UG & G)

SOCI 356 [556] CORRECTIONS IN AMERICA (3) The analysis of agencies and programs designed for the custody and supervision of individuals convicted of crimes. The primary focus will be on adult institutions and community corrections. Prerequisite: SOCI 353 or SOCI 354 or SOCI 355. (UG & G)

SOCI 357 [557] SOCIAL WELFARE (3) Sociological analysis of social welfare institutions and the functions they perform within modern societies. Prerequisite: SOCI 101. (UG & G)

SOCI 359 [559] SOCIAL GERONTOLOGY (3) Examination of social factors in aging in later life and responses to aging; evaluation of research in social gerontology. Students who received credit for Social Gerontology (SOCI 360) prior to Fall 1986 will not receive credit for Sociology of Aging (SOCI 360) if taken in Fall 1986 or later. Students who received credit for Sociology of Aging (SOCI 359) prior to Fall 1986 will not receive credit for Social Gerontology if taken in Fall 1986 or later. Prerequisite: SOCI 101. (UG & G)

SOCI 360 [550] SOCIOLOGY OF AGING (3) The study of the life cycle and the social significance of aging as well as the contemporary issues in social gerontology. Students who received credit for Social Gerontology (SOCI 360) prior to Fall 1986 will not receive credit for Sociology of Aging (SOCI 360) if taken in Fall 1986 or later. Students who received credit for Sociology of Aging (SOCI 359) prior to Fall 1986 will not receive credit for Social Gerontology if taken in Fall 1986 or later. Prerequisite: SOCI 101. (UG & G)

SOCI 361 THE AGING WORKER (3) Sociological perspective on job adjustment by society and the individual to the aging work force in the industrialized setting. Includes discussion of both job retention and preparation for retirement. Prerequisite: SOCI 101. (UG)

SOCI 362 BASIC METHODS IN HUMAN SERVICES PRACTICE (3) Concepts and techniques useful for effective interaction in the helping relationship; interviewing social agency clients; analyzing and participating in solving of their problems. Prerequisite: SOCI 101.

SOCI 363 JOBS AND JOBLESSNESS (3) Understanding the problems of obtaining and losing jobs from a sociological perspective. Concerns, itself with the nature and content of job holding in terms of status, access and wage level; characteristics of occupations and jobs, and differences among jobs as a function of formal preparation, training and social standing, focuses on constraints to entry into professions and occupations and the social meaning of unemployment. Prerequisite: SOCI 101. (UG)

SOCI 365 ISSUES IN YOUTH UNEMPLOYMENT (3) Focuses on sociological understanding of the problems of the younger worker. Concerns itself with such matters as job preparation, job counseling and job training as well as the consequences of unemployment in terms of delinquency, social disturbance and job policy. Prerequisite: SOCI 101. (UG)

SOCI 366 SOCIAL SECURITY IN ACTION (3) American Social Security Program as an idea and system, its beginnings and current programs. Prerequisites: SOCI 101. (UG)

SOCI 367 [558] SOCIOLOGY OF DEATH, DYING AND BEREAVEMENT (3) Examination of present social considerations on death including demographic, attitudinal and ritualistic variables; death education through the life cycle; structure of the grief process; impact of terminal illness on the patient and the family; ethical issues surrounding euthanasia and suicide. Prerequisite: SOCI 101. (UG & G)

SOCI 369 GROUP VOCATIONAL COUNSELING (3) Relates theory of social interaction and collective behavior to short-term, goal related counseling. Focuses both on understanding and performing group counseling techniques for vocational guidance. Utilizes role playing, playback and similar methods of skill enhancement. Prerequisite: SOCI 101. (UG)

SOCI 370-379 [560-569] TOPICS IN SOCIOLOGY (3) An examination of current topics in sociology designed for non-majors as well as majors. The content of the course will depend upon mutual faculty and student interest. May be repeated when different topic is focus of course. Prerequisite: SOCI 101. (UG & G)

SOCI 381 [581] SOCIOLOGICAL THEORY (3) Major systems of sociological theory; the works, assumptions, and implications of major European and American schools. Prerequisites: Junior standing; SOCI 101; nine additional hours of Sociology. (UG & G)

SOCI 391 [582] RESEARCH METHODS (3) A consideration of methodology of sociological research; the various steps in conducting research projects, from statement of the problem to final analysis of data. Prerequisites: SOCI 101; nine additional hours of SOCI, either PSYC 212 or MATH 231. (UG & G)

SOCI 470-479 [570-579] SPECIAL TOPICS IN SOCIOLOGY (3) An examination of current topics in sociology designed for Junior and Senior majors. The content of the course will depend upon mutual faculty and student interest. May be repeated when different topic is focus of course. Prerequisites: SOCI 101 and six additional hours of Sociology. (UG & G)

SOCI 485 [585] SEMINAR IN SOCIOLOGY (3) Capstone course application of ideas, methods, and facts learned in previous sociology courses. Prerequisite: SOCI 101, 3 upper level SOCI courses, and senior standing or permission of instructor. (UG & G)

SOCI 491-492 [591-592] INTERNSHIP IN SOCIOLOGY I, II (3,3) Supervised experience in work setting which facilitates understanding of roles and relationships relevant to sociological inquiry and application of sociological knowledge. Students may elect to take one semester for 3 credits (491) or two semesters for 3 credits each (491-492) in one agency both semesters or in a different agency each semester. No more than three credits may be earned in a semester save with consent of the chair, which will be granted only when agency requirements and student needs make it appropriate. A fee is charged for each semester in which a student is involved in the practicum. Prerequisite: SOCI major; Junior standing and consent of internship coordinator. (UG & G)

SOCI 495 [595] INDEPENDENT RESEARCH (3) Supervised research and sociological investigation involving library and/or field experiences, and culminating in a written report. May be repeated for a maximum of six hours credit. Prerequisites: SOCI 381 and SOCI 391 and consent of instructor. (UG & G)

SOCI 497 SEMINAR IN SOCIOLOGY (Honors) (3) Exploring and analyzing major areas of sociology. Prerequisite: Consent of the Honors Coordinator. (UG)

SOCI 498 READINGS IN SOCIOLOGY (Honors) (4) A survey of the relevant scholarly literature under the guidance of a staff member who will direct the student's research. Prerequisite: Consent of the Honors Coordinator. (UG)

SOCI 499 HONORS THESIS (4) Supervised research and sociological investigation involving library and/or field experience and culminating in a written report. Prerequisite: Consent of the Honors Coordinator. (UG)

SPANISH (SPAN)**Lower Division**

SPAN 101-102 SPANISH ELEMENTS I, II (3, 3) A thorough foundation in grammar: drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1. (UG)

SPAN 201-202 SPANISH INTERMEDIATE I, II (3, 3) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings commensurate with the ability of the individual student. Conducted in Spanish. Prerequisite: SPAN 101-102 or equivalent. GenEd II.C.3. (UG)

Upper Division

SPAN 301-302 COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond intermediate level. Conducted in Spanish. Prerequisite: SPAN 201-202 or equivalent. GenEd II.C.3. (UG)

SPAN 305 READINGS IN SPANISH (3) This course is designed to improve reading and comprehension skills in Spanish, while exposing the students to introductory Spanish literature. Prerequisite: SPAN 202 or equivalent or consent of instructor. (UG)

SPAN 306 SPANISH PHONETICS (3) Analysis and laboratory drills of standard Latin-American pronunciation with some attention to Castilian. Conducted in Spanish. Prerequisite: SPAN 301-302 or equivalent. Not open to native speakers of Spanish. (UG)

SPAN 311 CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES I (3) Value-system and way of life as embodied in the language, history, arts and customs of Spain. Conducted in Spanish. Prerequisite: SPAN 301-302 or equivalent. (UG)

SPAN 312 CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES II (3) Value-system and way of life as embodied in the language, history, arts and customs of Ibero-America. Prerequisite: SPAN 301-302 or equivalent. (UG)

SPAN 321-322 SURVEY OF SPANISH LITERATURE I, II (3, 3) Spanish and Spanish-American literature, with collateral readings. Conducted in Spanish. Prerequisite: SPAN 301-302 or equivalent. (UG)

SPAN 331 SPANISH FOR BUSINESS (3) The fundamentals of commercial correspondence in Spanish. Focuses on the form and style of Spanish currently used in a business environment. Intensive practice in speaking, writing, and translating. Prerequisite: SPAN 201-202 or equivalent or consent of instructor. (UG)

SPAN 391 ADVANCED SPANISH GRAMMAR (3) Spanish syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Conducted in Spanish. Prerequisite: SPAN 301-302. (UG)

SPAN 402 [502] SPANISH LINGUISTICS (3) The linguistic structure of the Spanish language with an introduction to transformational grammar. Prerequisite: SPAN 301-302 or equivalent. (UG & G)

SPAN 411 [511] NINETEENTH-CENTURY SPANISH NOVEL (3) Emphasis will be given to Benito Perez Galdos and Pio Baaraja. Conducted in Spanish. Prerequisites: SPAN 321-322. (UG & G)

SPAN 412 [512] CONTEMPORARY SPANISH NOVEL (3) Emphasis on such writers as Cela, Sender, Delibes and Goytisolo. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent. (UG & G)

SPAN 417 [517] THE GOLDEN AGE IN SPANISH LITERATURE I (3) Principal attention to Cervantes, Tirso de Molina, Lope de Vega, and Ruiz de Alarcón. Conducted in Spanish. Prerequisite: SPAN 321-322. (UG & G)

SPAN 431 [531] NINETEENTH CENTURY SPANISH LITERATURE (3) The main literary movement of the century: neoclassicism, romanticism, realism, naturalism, and special emphasis on "costumbrismo." Conducted in Spanish. Prerequisite: SPAN 321-322 or equivalent. (UG & G)

SPAN 439 [539] LITERARY MOVEMENTS IN THE SPANISH AMERICAN LITERATURE (3) Characteristics of the literary movements in Spanish America through the most representative short stories of every period. Conducted in Spanish. Prerequisite: SPAN 321-322 or equivalent. (UG & G)

SPAN 444 [544] TWENTIETH CENTURY SPANISH-AMERICAN LITERATURE II (3) The Contemporary Period. Conducted in Spanish. Prerequisite: SPAN 321-322 or equivalent. (UG & G)

SPAN 452 [552] CONTEMPORARY SPANISH POETRY (3) Emphasis on the poets of the generation of 1927; Pablo Neruda, and Vicente Aleixandre. Conducted in Spanish. Prerequisite: SPAN 321-322 or equivalent. (UG & G)

SPAN 462 [562] CONTEMPORARY SPANISH DRAMA (3) Emphasis on playwrights such as Casona, Sastre and Buero Vallejo. Conducted in Spanish. Prerequisite: SPAN 321-322 or equivalent. (UG & G)

SPAN 470-479 [570-579] SPECIAL TOPICS IN SPANISH (3) Discussion of a central topic with changing emphasis from year to year. Prerequisite: SPAN 321-322 or the equivalent. (UG & G)

SPAN 481 [581] SPANISH SHORT STORIES (3) The short stories in Spain with emphasis on twentieth century authors. Conducted in Spanish. Prerequisite: SPAN 321-322 or equivalent. (UG & G)

SPAN 491 [591] DIRECTED READINGS IN SPANISH LITERATURE (1-3) Reserved for superior students under the guidance of a departmental advisor. Conducted in Spanish. Prerequisites: At least three hours of literature study at the 400 level, consent of Department Chair. (UG & G)

SPAN 492 [592] DIRECTED READINGS IN SPANISH (1-3) Similar to Spanish 491 with concentration on a different subject matter. Conducted in Spanish. Junior or Senior majors only. Prerequisites: At least three hours of literature study at the 400 level, consent of Department Chair. (UG & G)

SPAN 494 TRAVEL STUDY ABROAD (3-16) A study of the main features of Hispanic culture and civilization. Cities and topics to be selected. For complete information contact the Chair of the Department. Prerequisite: Consent of instructor. (UG)

SPAN 495 INTERNSHIP FOR THE CERTIFICATE OF PROFICIENCY IN SPANISH (3) Supervised experience in a work setting providing students the opportunity to apply their classroom learning and skills outside the academic world. Will be one semester (Fall or Spring) for which students receive three credits for eight hours of work per week. Junior or Senior undergraduate students in good academic standing who meet the requirements established for the CERTIFICATE OF PROFICIENCY IN SPANISH (completion of nine credit hours of required courses) can apply for the internship during the month of November for the Spring semester and during the month of April for the Fall semester. Prerequisite: Open only to students who are enrolled in the Certificate of Proficiency Program in Spanish who have complied with the program regulations. Written consent of Department Chair and Coordinator of the Program. (UG)

SPAN 497 INTERNSHIP IN SPANISH (3) This program is designed to give training and experience using Spanish in working with the government, business and industry in Maryland or Washington, D.C. under professional supervision. Prerequisites: Junior or Senior standing Spanish majors (professional track) only, and completion of at least 27 credits above 300 level courses. Written consent of Coordinator of Program. (UG)

SPECIAL EDUCATION (SPED)**Upper Division**

SPED 301 INTRODUCTION TO SPECIAL EDUCATION: K-12 (3) Historical, philosophical, legal foundations of special education as related to current issues and practices in educational settings. Prerequisite: PSYC 201 or consent of instructor. Field experience required. (UG)

SPED 425 [525] FORMAL TESTS AND MEASUREMENTS FOR STUDENTS WITH DISABILITIES (K-12) (3) Assessment techniques; philosophical rationale; current research; intervention strategies. Prerequisites: 6 hrs. PSYC; 9 hrs. SPED or consent of instructor. (UG & G)

SPED 427 [527] CURRICULUM/METHODS OF SOCIAL EMOTIONAL AND MOTOR DEVELOPMENT FOR STUDENTS WITH DISABILITIES K-12 (3) Curriculum theory: research, instructional techniques for students with disabilities. Prerequisites: 6 hrs. SPED or consent of instructor. (UG & G)

SPED 428 WORKING WITH FAMILIES OF STUDENTS WITH DISABILITIES (3) Communication skills, human relations; parent counseling and conferencing. Prerequisites: SPED 301 and consent of SPED Coordinator. (UG)

SPED 429 CURRICULUM/METHODS OF CLASSROOM MANAGEMENT FOR STUDENTS WITH DISABILITIES (3) Theoretical foundations; development of practical interventions. Prerequisites: SPED 301 and consent of SPED Coordinator. (UG)

SPED 430 INFORMAL TESTS AND MEASUREMENTS FOR STUDENTS WITH DISABILITIES (K-12) (3) Assessment, diagnosis, prescriptive techniques; procedures, administration, interpretation, programming. Prerequisites: SPED 301 and consent of SPED Coordinator. (UG)

SPED 441 [541] CURRICULUM/METHODS OF INSTRUCTION FOR STUDENTS WITH DISABILITIES (K-12) (3) Characteristics affecting learning, designing educational programs. (Observations in appropriate settings and guest lecturers in specialty area.) Prerequisites: 6 credits in PSYC and 6 credits in education. (UG & G)

SPED 470-479 SPECIAL TOPICS IN SPECIAL EDUCATION (1-3) In-depth study of a selected topic in Special Education. The specific requirements and prerequisites will vary with each topic and will be designed by the department each time a topic is scheduled. Each topic may be taken as a separate course. (UG)

SPED 481 [581] METHODS AND MATERIALS FOR TEACHING THE VISUALLY IMPAIRED (3) Designed to examine recognized methods, materials, and programs for teaching children who are visually impaired.

Offered in cooperation with Maryland School for the Blind. Prerequisites: SPED 483 and consent of instructor. (Reactivated in Fall 1991.) (UG & G)

SPED 483 [583] BRAILLE READING AND WRITING (3) Designed to meet needs of teachers who will be teaching the visually impaired to read and write braille. Consent of instructor. (Reactivated in Fall, 1991.) (UG & G)

SPED 491 INTERNSHIP: STUDENTS WITH DISABILITIES IN ELEMENTARY/MIDDLE GRADES (3) Supervised clinical field experience with elementary/middle school students with disabilities. Prerequisites: 12 hrs. SPED and consent of Coordinator of Special Education. (UG)

SPED 497 INTERNSHIP: STUDENTS WITH DISABILITIES IN INFANT/PRIMARY PROGRAMS (3) Supervised clinical field experience with young children with disabilities. Prerequisites: 12 hrs. SPED and consent of Coordinator of Special Education. (UG)

SPED 498 STUDENT TEACHING: SPECIAL EDUCATION (3-10) Placement in special education classroom either public or private at the age/grade appropriate for student's program. Prerequisites: 18 hrs. SPED and consent of Coordinator of Special Education.

Graduate Division

Special TU *Graduate School Catalog* for course descriptions.

COMMUNICATION SCIENCES & DISORDERS (SPPA)

Lower Division

SPPA 105 SPEECH AND LANGUAGE DEVELOPMENT (3) Analysis of normal speech and language development, including the phonetic, semantic, and syntactic elements. Physiology of speech and language learning. (UG)

SPPA 200 ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISM (3) Anatomical structures involved in the communication processes of Speech, Language and Hearing. Analysis of the functioning of these structures. Lectures and laboratory sessions will be required. Prerequisite: SPPA 105 and/or consent of Department. (UG)

SPPA 205 BASIC SIGN LANGUAGE (3) Introduction to sign language with emphasis on basic vocabulary acquisition and awareness of hearing impairment. Focus on skill development in signed English, maintaining grammatical and conceptual accuracy. Participation and demonstration required. GenEd II.B.3. (UG)

SPPA 206 ASL I (3) The course will emphasize receptive and expressive conversational skills in American Sign Language. Class will be conducted in a silent classroom (no voices allowed). Fingerspelling rate and fluency will be stressed. Non-verbal communication skills and basic interpretive practice will be provided. Prerequisite: SPPA 205 and/or consent of instructor. (UG)

SPPA 210 PHONETICS OF AMERICAN ENGLISH (3) Analysis of speech sounds of American English and the use of phonetic symbols to record them. Emphasizes ear training, phonetic transcription, and language recordings. (UG)

Upper Division

SPPA 302 SPEECH AND LANGUAGE PATHOLOGY I: PHONOLOGY (3) Theories of phonological development and clinical appreciation of current linguistic analysis techniques in description of articulation and other phonological disorders. Standardized testing procedures and treatment program development. Prerequisite: SPPA 313, major status and/or consent of Department. (UG)

SPPA 303 HEARING SCIENCE (3) Introduction to study of acoustics and psychoacoustics. Utilization of models and instrumentation. Prerequisite: SPPA 105 and/or consent of Department. Not open to those who have taken SPPA 301. (UG)

SPPA 304 SPEECH AND LANGUAGE PATHOLOGY II: LANGUAGE (3) Interaction of normal language development and language disorders including psycholinguistics, semantic development, information processing and auditory memory. Prerequisite: SPPA 313, major status and/or consent of Department. (UG)

SPPA 306 SPEECH AND LANGUAGE PATHOLOGY III: ORGANIC DISORDERS (3) Etiology, differential diagnosis and therapeutic management in the area of organic and functional voice problems, cleft lip and palate, adult aphasia, cerebral palsy and mental retardation. Prerequisites: SPPA 302, SPPA 304 and/or consent of Department. (UG)

SPPA 307 ASL II (3) Continued skill development in expressive and receptive American Sign Language begun in intermediate sign language. Prerequisites: SPPA 205, 206 and/or consent of Department. (UG)

SPPA 313 LANGUAGE & SPEECH SCIENCE (3) Biological, linguistic and acoustic aspects of language and speech processes. Strategies for scientific study of language & speech including age, gender and cultural variables. Prerequisites: SPPA 210, 303 and/or consent of the Department. Not open to those who have taken SPPA 301. (UG)

SPPA 321 INTRODUCTION TO AUDIOLOGY (3) Anatomy, physiology and pathologies of the hearing mechanism. Instrumentation and techniques for the identification and management of hearing disorders inclusive of pure-tone and speech audiometrics and screening methods. Prerequisite: SPPA 303, major status and/or consent of Department. (UG)

SPPA 325 INTRODUCTION TO AURAL REHABILITATION (3) Information on options available for managing children and adults who are deaf or hard of hearing. Early intervention, communication strategies, amplification options and psychosocial issues. Prerequisites: SPPA 321 and/or consent of Department. (UG & G)

SPPA 325 [525] INTRODUCTION TO AURAL REHABILITATION (3) Information on options available for managing children and adults who are deaf or hard of hearing. Early intervention, communication strategies, amplification options and psychosocial issues. Prerequisites: SPPA 321 and/or consent of Department. (UG & G)

SPPA 341 CLINICAL AUDIOLOGY (3) Basic audiometry; audiogram interpretation; basic principles of audiologic habilitation including school hearing conservation. Prerequisite: SPPA 321, and/or consent of Department. (UG)

SPPA 345[545] PSYCHOSOCIAL ASPECTS OF DEAFNESS (3) The educational, legal, philosophical and political influences that affect the lives of people who are deaf/hard of hearing. The impact of prelingual and postlingual deafness on an individual's social and psychological functioning will be discussed. Prerequisite: major status and/or consent of Department. (UG & G)

SPPA 416 CLINICAL OBSERVATIONS & TECHNIQUES (3) Methods and materials in clinical practice. Planning and implementation of treatment protocols. Twenty-five hours of supervised observation in a variety of clinical settings. Prerequisites: SPPA 302, 304, 321 and/or consent of Department. (UG)

SPPA 417 TECHNICAL WRITING IN THE CLINICAL PROCESS (3) Develops writing skills in disciplines of speech-language pathology & audiology. Prerequisites: ENGL 102 or 190; SPPA 416. May be taken concurrently with SPPA 487. GenEd I.D. (UG)

SPPA 470-479 SPECIAL TOPICS SEMINAR IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3) Investigation of particular topics in the fields of speech and language pathology and audiology. The topic will vary each semester the course is offered. Prerequisite: Varies with topic. (UG)

SPPA 487 CLINICAL INTERNSHIP I (3) Clinical practice in therapeutic procedures with various types of speech, language and/or hearing disorders in the Towson University Speech/Language/Hearing Clinic. Students must attend weekly class. Prerequisites: Minimum 3.0 GPA in prerequisite major courses, 25 documented hrs. of observation, SPPA 416 completed communication screening, or consent of Department. May be taken concurrently with SPPA 417. (UG)

SPPA 496 INDEPENDENT STUDY IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (1-4) Independent study in selected areas of Speech-Language Pathology and Audiology. Prerequisites: Upper division status, faculty/mentor agreement and/or consent of Department. May be attempted for a maximum of 6 credits. (UG)

SPPA 497 DIRECTED READINGS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (1-4) Directed readings in selected areas of Speech Pathology and Audiology. Prerequisites: Upper division status, faculty/mentor agreement and/or consent of Department. May be attempted for a maximum of 6 credits. (UG)

SPPA 498 PROCTORING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3) Students serve as teaching apprentices or proctors in a course which they have already completed in the Department. May be attempted for a maximum of 6 credits. Prerequisites: Grade of "B" or better in course for which the student will proctor and/or consent of the Department. (UG)

Graduate Division

See TU *Graduate School Catalog* for course descriptions.

THEATRE ARTS (THEA)

Lower Division

THEA 101 ACTING I (3) Development of imagination through improvisation, exercises, and simple scenes. GenEd I.E. (UG)

THEA 103 INTRODUCTION TO AMERICAN THEATRE (3) Theatrical experience through study of the various types, styles and production processes of the theatre. Theatre as a public art and its relationship to our culture. GenEd II.B.1. (UG)

THEA 105 MOVEMENT DRILL FOR THE ACTOR I (3) Tension release, alignment and physical characterization utilizing movement theories. (UG)

THEA 107 PROPERTY DESIGN AND CONSTRUCTION (3) Materials, tools and techniques for executing property design. (UG)

THEA 111 VOICE DRILL FOR THE ACTOR I (3) Theory and practice in vocal production, application to the freeing, development and strengthening of the voice. (UG)

THEA 125 SCRIPT ANALYSIS (3) Interpretation and analysis of playscripts as the basis for public performance, from the viewpoints of audience members and practitioners. Introduction to research methods for contemporary performance, including reviews, critical interpretation, and research for production. GenEd I.B. (UG)

THEA 142 INTRODUCTION TO THEATRE DESIGN (3) Creative aspects of theatrical design from concept to realization. Not open to students who successfully completed THEA 141 "Introduction to Scenic Design." GenEd I.E. (UG)

THEA 201 SCENIC DESIGN I (3) Influence of acting, directing, audience and aesthetics on the development of scenic design. (UG)

THEA 202 ACTING II (3) Technique and practice of scene study; analyzing a script, rehearsing a scene and playing an action. Prerequisite: THEA 101, 105 and III. (UG)

THEA 205 THEATRE GAMES (3) Exercises in "game structures" to develop creativity, encourage work on personal acting techniques and free the actor from mechanical stage behavior. Prerequisite: THEA 101. (UG)

THEA 206 THEATRE RENDERING (3) Implementing and completing costume, scenic, lighting and property design drawings for theatre. (UG)

THEA 207 THEATRE ARTS FOR CHILDREN (3) Theory and techniques of playmaking for children. Lecture, demonstration and participation in pantomime, improvisation, and story dramatization. (UG)

THEA 209 SOUND DESIGN (3) Electronic and acoustic information and their relationship to theatre spaces and artistic applications. (UG)

THEA 211 HISTORY OF THEATRE AND DRAMA I (3) Relationship of theatre and drama to other fine arts and humanistic studies from their origins to 1600. Prerequisite: THEA 125. (UG)

THEA 212 HISTORY OF THEATRE AND DRAMA II (3) Relationship of theatre and drama to other fine arts and humanistic studies from 1600 to 1850. Prerequisite: THEA 125. (UG)

THEA 213 HISTORY OF THEATRE AND DRAMA III (3) Relationship of theatre and drama to other fine arts and humanistic studies from 1850 to present. Prerequisite: THEA 125. (UG)

THEA 231 MIME & PHYSICAL THEATRE TECHNIQUES (3) Ensemble exercises and performance projects utilizing gestures, illusions, and walks. (UG)

THEA 238 MOVEMENT DRILL FOR THE ACTOR II (3) Flexibility, responsiveness and variety of the physical instrument. Prerequisite: THEA 105 & DANC 107. (UG)

THEA 241 COSTUME, DRESS AND SOCIETY: EGYPTIAN TO ELIZABETHAN (3) Study of clothing, costume design and construction. *Lab Required.* GenEd II.C.1. (UG)

THEA 242 COSTUME, DRESS AND SOCIETY: ELIZABETHAN TO 1950 (3) Study of clothing, costume design and construction. *Lab Required.* GenEd II.C.1. (UG)

THEA 245 MAKEUP DESIGN I (3) Theories and techniques of designing stage makeup for a variety of characters and roles. (UG)

THEA 246 MAKEUP DESIGN II (3) Special effects in character makeup using advanced techniques. Prerequisite: THEA 245. (UG)

THEA 249 MASK TRADITION AND DESIGN (3) Design, construction, and cultural influence. (UG)

THEA 251 STAGECRAFT I (3) Production techniques, construction procedures, painting, props and lighting. *Lab Required.* (UG)

THEA 255 LIGHTING DESIGN I (3) Developing awareness of light and its application as a form of aesthetic expression. *Lab Required.* (UG)

THEA 257 STAGE MANAGEMENT (3) Theatrical production focusing on the duties and responsibilities of stage managers. (UG)

THEA 261 ACTING FOR MUSICAL THEATRE I (3) An introduction to the acting problems inherent in Musical Theatre performance. Theory and practice. The development of the actor's awareness, imagination, and technique through lectures, improvisations, exercises, and ensemble scenes. Prerequisite: THEA 101 or consent of instructor. (UG)

THEA 263 DANCE DESIGN AND PRODUCTION (3) Costume, lighting, makeup, management, scenery, safety, sound and rigging techniques and practices. (UG)

THEA 271 SPECIAL TOPICS (1-6) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of six credits when a different area is covered. Prerequisite: Completion of appropriate course and department approval. (UG)

THEA 280 EXPERIMENTAL LABORATORY THEATRE ENSEMBLE (3) Experimental techniques, style and performance. (UG)

Upper Division

THEA 301 TECHNIQUES OF COMEDY (3) An introduction to the theories and uses of comedy. Varied practice in comic performance with an emphasis on material emanating from the student's experience. Prerequisites: THEA 101 and one other Acting or Mime course or consent of instructor. (UG)

THEA 303 CULTURAL DIVERSITY IN CONTEMPORARY THEATRE (3) An examination of both the construction of cultural identity and issues of cultural conflict as they are expressed in contemporary theatre. GenEd II.C.3. (UG)

THEA 305 FEMINIST THEATRE (3) A study of the feminist theatre and theatre roles for women prior to the feminist theatre movement. Prerequisite: THEA 101. (UG)

THEA 307 THEORIES OF THEATRE (3) Theories in acting, directing, design and dramaturgy from the classical through the modern period. Prerequisites: ENGL 102, THEA 211, THEA 212, THEA 213, and consent of instructor. GenEd I.D. (UG)

THEA 308 VOICE AND MOVEMENT INTEGRATION (3) Flexibility, responsiveness and integration of vocal and physical expression. Prerequisite: THEA 202. (UG)

THEA 309 ACTING III (6) Character development, approaching a script, structuring a scene, relating to environment, ensemble work and audition techniques. Prerequisites: THEA 308. (UG)

THEA 312 ACTING IV: SHAKESPEARE (3) Shakespeare reading facility, text analysis, contemporary vocabulary in scenes and monologues. Prerequisites: THEA 309 and consent of instructor. (UG)

THEA 315 ADVANCED SCENE STUDY (1-6) Understanding scenes with specific motivational, analytical, character or other acting problems. May be repeated for a maximum of 6 credits. Prerequisites: THEA 312. (UG)

THEA 331 DIRECTING I (3) Fundamentals of play directing through exercises, directorial play analysis, and projects in directing short scenes. Prerequisites: THEA 101 and consent of instructor. (UG)

THEA 332 MIME & PHYSICAL THEATRE STYLES (3) Advanced mime technique, ensemble exercises, and performances in the Italian, Oriental, French and American styles, including community service performances. (UG)

THEA 335 MOVEMENT THEATRE IMPROVISATION (3) Listening and responding to impulses within oneself and the ensemble. Prerequisites: THEA 105 and DANC 108. (UG)

THEA 351 STAGECRAFT II (3) Application of new technological approaches to stage construction, rigging and organization. Prerequisites: THEA 251 or consent of instructor. (UG)

THEA 353 COSTUME DESIGN I (3) Research techniques and relationship of color, texture and historical period to the script and production style. (UG & G)

THEA 355 LIGHTING DESIGN II (3) Color, organization and approaches to lighting design. *Lab Required.* Prerequisite: THEA 255. (UG)

THEA 361 SCENIC DESIGN II (3) Relationship of concept, script, aesthetics, and research to a production's design and style. *Lab Required.* Prerequisite: THEA 201. (UG)

THEA 365 THEATRE STUDY ABROAD (9) One semester exchange program in acting, design or theatre management at exchange universities abroad. Prerequisite: Junior/Senior standing and consent of department. (UG)

THEA 405 ACTING & WRITING FOR FEMINIST THEATRE (3) The student will write and perform scenes and projects in various feminist theatre styles including the monologue, the two woman show, the one woman show and the traditional scene. The course offers the student opportunities in original writing, editing, cutting, analyzing, critiquing, directing and performing. Prerequisite: THEA 305. (UG)

THEA 421 DIRECTING II: THE CONTEMPORARY PLAY (3) Preparation techniques and directorial approaches to contemporary drama. Individual directing projects of scenes from representative contemporary dramas. Prerequisite: THEA 331 or consent of instructor. (UG)

THEA 423 ADVANCED STUDY IN MOVEMENT THEATRE (3) Develop, prepare and perform a solo or ensemble piece. May be repeated for a maximum of 9 credits. Prerequisites: THEA 332 and THEA 335. (UG)

THEA 425 ADVANCED STUDY IN ACTING STYLE (1-9) Advanced work in the problems of acting plays from poetic and historic theatre. Scenes from Shakespeare, Moliere, Ibsen, Brecht, etc., will be studied and performed by the student in the context of discussion and research about the playwrights'.

world. Course may be repeated for a maximum of 9 credits, no more than 3 credits to be taken in any semester. Prerequisites: THEA 312 and consent of instructor. (UG)

THEA 427 ADVANCED STUDY IN DIRECTING (1-9) Independent study in preparation, rehearsal and production of special directing projects. May be repeated for a maximum of 9 credits. Prerequisites: THEA 331 and consent of instructor. (UG)

THEA 429 ADVANCED STUDY IN THEATRE PRODUCTION (1-9) Independent study in theatre production. May be repeated for a maximum of 9 credits. Prerequisite: consent of instructor. (UG)

THEA 433 ADVANCED STUDY IN STAGE MANAGEMENT (1-9) Independent study in stage management. May be repeated for a maximum of 9 credits. Prerequisites: THEA 257, THEA 331 and consent of instructor. (UG)

THEA 443 STRUCTURAL DESIGN AND SAFETY (3) Stress analysis, safety practices and construction techniques. Prerequisites: MATH 115, THEA 251 or consent of instructor. (UG)

THEA 445 SCENE PAINTING (3) Techniques for painting scenery. *Lab Required.* Prerequisites: THEA 201, ART 201 or consent of instructor. (UG)

THEA 453 COSTUME DESIGN II (3) Fabric selection, budget preparation, pattern choices, resumes and portfolios. Prerequisite: THEA 353. (UG)

THEA 463 PERIOD STYLE FOR DESIGN (3) Historical periods and styles and their relationship to the visual arts, literature and society. Prerequisite: Consent of instructor. (UG)

THEA 480 [580] ADVANCED STUDY IN THEATRE DESIGN (1-9) Independent study in costume, scenery or lighting design. May be repeated for a maximum of 9 credits. Prerequisite: Consent of instructor. (UG & G)

THEA 487 PROFESSIONAL THEATRE SEMINAR (1-12) A semester's internship in a resident theatre company. For majors only. Prerequisite: Consent of department. (UG)

THEA 488 THEATRE VISITATION AND ANALYSIS ABROAD (3) Analysis and critique of theatre productions. Prerequisites: Junior/Senior standing and consent of department. (UG)

THEA 489 SENIOR ACTING SEMINAR (3) Auditioning techniques, unions, agents, resumes, the transition from student to professional and the realities of professional theatre. Open to seniors in Acting Concentration. Prerequisite: THEA 315, completion of acting sequence and consent of instructor. (UG)

THEA 491 THEATRE PRODUCTION (3) Experience involving major responsibility on a departmental production. Examples of such experiences include set design, costume design, stage managing and major acting and directing assignments. Prerequisite: Five successfully completed non-credit theatre practicums. (UG)

THEA 493 [593] ADVANCED STUDY IN THEATRE (1-9) Independent study of an academic or creative nature. For majors only. May be repeated for a maximum of 9 credits. Prerequisite: Approval of plan of study by instructor and director of theatre. (UG & G)

THEA 499 SPECIAL PROJECT IN THEATRE RESEARCH (3) Seminar to demonstrate the student's proficiency in an area agreed upon by the student and his/her advisor. Prerequisites: Theatre major with Senior standing or consent of instructor. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.

WOMEN'S STUDIES (WMST)

Lower Division

WMST 231 WOMEN IN PERSPECTIVE (3) An examination of the status of women and women's attempts to achieve economic, legal and social equality, and physical integrity, in the past and today with an emphasis on U.S. women. The focus is on both the commonalities and the diversity of women's experience. Topics covered include marriage, motherhood, education, jobs, and sexuality, with attention to race and class. GenEd II.C.3. (UG)

WMST 232 HONORS SEMINAR: WOMEN IN PERSPECTIVE (3) An examination of the status of women and women's attempts to achieve economic, legal and social equality, and physical integrity, in the past and today with an emphasis on U.S. women. The focus is on both the commonalities and the diversity of women's experience. Topics covered include marriage, motherhood, education, jobs, and sexuality, with attention to race and class. Emphasis on student research into and analysis of women's political, autobiographical and fictional writings. Honors College. Special permit only. GenEd II.C.3. (UG)

WMST 233 INTERNATIONAL PERSPECTIVES OF WOMEN (3) Interdisciplinary examination of women's status and activism worldwide, including regional and local comparisons. Roles of governments and

international organizations in shaping women's experiences. GenEd II.D. (UG)

Upper Division

WMST 332 [532] WOMEN'S CULTURE AND CREATIVITY (3) Study of the historical conditions influencing women's creativity, the nature of women's aesthetic achievements, and the emergence of new female cultural and artistic traditions. Prerequisite: WMST 231 or WMST 232 or permission of instructor. (UG & G)

WMST 333 WOMEN'S WORDS, WOMEN'S LIVES (3) Practice in and study of expository writing about women. Readings include fiction, biographies, autobiographies, letters, and journals; student writing will focus on such topics as women's roles, relationships, and actions. Prerequisite: ENGL 102; one course in Women's Studies or one additional English course. GenEd I.D. (UG)

WMST 335 [535] WOMEN, WORK AND FAMILY (3) Women's work examined historically and cross-culturally from an interdisciplinary perspective. Women's work in traditional societies, effects of industrialization on women's work, and women's paid and unpaid work in contemporary societies. Prerequisite: 3 credits social science or history. (UG & G)

WMST 336 [536] WOMEN AND MEDICINE (3) A study of how gender has influenced the structure, content, and practice of medicine in the 19th and 20th centuries with emphasis on disease theory and treatment, physicians' involvement in social policy, and women's challenges to medical authority. Special focus on the history of nursing, women's entry into medical practice, and women's health movements past and present. Prerequisite: 3 credits in Women's Studies or social sciences. (UG & G)

WMST 337 [537] FEMINISM (3) An examination of feminism as a set of ideas, and the systematic application of those ideas to achieve political, social, and economic equality. Prerequisite: Three credits in social sciences or in Women's Studies or consent of instructor. (UG & G)

WMST 338 [538] WOMEN AND SEXUALITY (3) Examination of the politics of sexuality: the interaction between cultural definitions and evaluations of women's sexualities and women's social and legal states; and women's attempts to achieve sexual autonomy. Emphasis on how the meaning of sexuality changes over time and how women respond to these changes, and their effect on women. Prerequisite: 3 credits in Women's Studies or social sciences. (UG & G)

WMST 339 [539] REPRODUCTIVE TECHNOLOGIES AND THE FUTURE OF MOTHERHOOD (3) Reproductive science and contraceptive technologies effecting contemporary society, focusing on ethical and legal issues, and changing definitions of motherhood. Prerequisites: Two science courses, or one math and one science course. GenEd II.A.2. (UG & G)

WMST 370 [570] TOPICS IN WOMEN'S STUDIES (3) An interdisciplinary examination of selected issues, themes, or topics in women's studies. Variation in content in different semesters; may be re-elected. Prerequisite: One Women's Studies course or consent of instructor. (UG & G)

WMST 481 DIRECTED READINGS FOR HONORS IN WOMEN'S STUDIES (3-4) Reading and research in preparation for the writing of an Honors Thesis. Prerequisite: Consent of the departmental honors coordinator. (UG)

WMST 485 SEMINAR IN WOMEN'S STUDIES (3) Advanced study in a specialized area of women's studies. May be repeated for a maximum of six credits. Prerequisites: WMST 231 or WMST 232 and WMST 337 or equivalent. (UG)

WMST 491 [591] DIRECTED READING IN WOMEN'S STUDIES (1-4) Independent reading in women's studies with emphasis on interdisciplinary relationships. Topics selected by student in consultation with the instructor. May be repeated for a maximum of 6 credits. Prerequisites: 15 hours in interdisciplinary or departmental Women's Studies courses; minimum 3.0 average in Women's Studies. Special permit only. (UG & G)

WMST 496 [596] INTERNSHIP IN WOMEN'S STUDIES (3 or 6) Field placement for students in agencies or organizations working on projects which serve women. May be repeated for credit. Prerequisites: Upper level or graduate standing; WMST 231 or WMST 232; one other Women's Studies course and consent of instructor. (UG & G)

WMST 499 HONORS THESIS (3) Thesis preparation in a chosen area of specialization. Prerequisite: Consent of the departmental honors coordinator. (UG)

WRITING (WRIT)**Upper Division**

WRIT 312 HISTORY OF SCIENCE (3) This course will present a general overview of the development of scientific knowledge from ancient to modern times. It will examine how our modern scientific worldview has been shaped by major periods of scientific development, particularly in the 16th and 17th centuries involving primarily astronomy and physics, and in the 19th and 20th including geology, biology, and psychology as well. Attention will be given to the relations between science and culture, religion, technology, and public policy. (UG & G)

WRIT 335 ETHICS IN THE PHYSICAL SCIENCES (3) Integrity of scientific literature and responsibilities of scientists to peers, proteges, employers and the public. Examination of principles and case studies. Not open to students who have taken CHEM 335. Fulfills advanced writing course requirements. Prerequisites: three courses in BIOL, CHEM, PHYS, or PHSC, at least two with laboratory. ENGL 102. GenEd I.D. (UG)

WRIT 354 WRITING FOR CRIMINAL JUSTICE (3) The components of criminal justice system: police, courts, corrections. Theories of criminal justice applied to operations. Prerequisite: SOCI 101, ENGL 102 or 190. GenEd I.D. (UG)

WRIT 361 CONTROVERSIES IN ANTHROPOLOGY (3) This course is designed to integrate writing, discussion and visual learning by focusing on a number of significant controversial issues in cultural anthropology. Students will read divergent assessments on each issue under study. In addition, films will be shown which further illuminate the topics. The topics covered will be selected to cover a diverse range of areas including: socio-biology, social organization, warfare, religion, medical systems and modernization. Prerequisite: ANTH 207. (UG)

WRIT 375 PUBLIC ADMINISTRATION (3) The theory and practice of managing the publicity business with special emphasis on organizational change, personnel, and budget. Writing for public administration and the use of common-based data sources. Prerequisite: POSC 103 and ENGL 102. GenEd II.D. (UG)

WRIT 381 SOCIOLOGICAL THEORY (3) Major systems of theory; the works, assumptions, and implications of major European and American schools. Prerequisites: Junior standing; SOCI 101; nine additional hours of Sociology. (UG & G)

WRIT 411 ORGANIZATIONAL COMMUNICATIONS (3) Study of factors influencing communication in organizations such as business, industry, and government, including the nature of communication, organizational structure, downward and upward communication, conflict, groups, interactions, and communication channels. Emphasis will be on detailed analysis of communications, particularly written communications. Prerequisites: ENGL 102 or 190 and lower-level English course. (UG)

Graduate Division

See *TU Graduate School Catalog* for course descriptions.





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Megan Rock
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Instructional Faculty

The date in parentheses is the date of first appointment in the university.

DANIEL AGLEY, *Assistant Professor, Health Science*
[1971] B.S., M.S., Indiana University; Ed.D., University of Maryland.

KIUMI AKINGBEHIN, *Professor and Chair, Computer and Information Sciences*
[1994] B.S., Howard University; M.S., University of Tennessee; M.A., Ph.D., Wayne State University.

PHILIP S. ALBERT, *Assistant Professor, Kinesiology*
[1969] B.S., University of Arizona

JOHN R. ALEXANDER, JR., *Associate Professor, Computer and Information Sciences*
[1976] B.S., Columbia University; M.S., Johns Hopkins University; Ph.D., University of Maryland Graduate School, Baltimore.

GLEN SCOTT ALLEN, *Assistant Professor, English*
[1992] B.S., University of Utah; M.A., Boston University; Ph.D., University of Utah.

PATRICIA ALT, *Associate Professor, Health Science*
[1987] A.B., Duke University; M.A., Ph.D., University of North Carolina.

BESS ALTWERGER, *Associate Professor, Elementary Education*
[1989] B.A., SUNY at Stonybrook; M.A., Jersey City State College; Ed.D., University of Arizona.

MOSTAFA S. AMINZADAH, *Associate Professor, Mathematics*
[1988] B.S., Pahlavi University, Iran; M.S. California State University; Ph.D., Oregon State University

LENA AMPADU, *Instructor, English*
[1976] M.A., American University.

JANET KAY ANDERSON, *Associate Professor, Psychology*
[1977] B.A., University of Portland; M.A., New York University at Madrid, Spain; M.S. Kansas State University; Ph.D., University of Maryland.

VIRGINIA JOHNSON ANDERSON, *Professor, Biology*
[1968] B.S., Lamar State College of Technology; M.Ed., University of Georgia. Ed.D., University of Maryland.

VINCENT A. ANGOTTI, *Assistant Professor, Kinesiology*
[1965] B.S., Lock Haven State College; M.S., West Virginia University.

JAMES M. ANTHONY, *Associate Professor, Music*
[1971] B.M., B.A., University of Arkansas; M.A., University of Michigan; Ph.D., University of Michigan.

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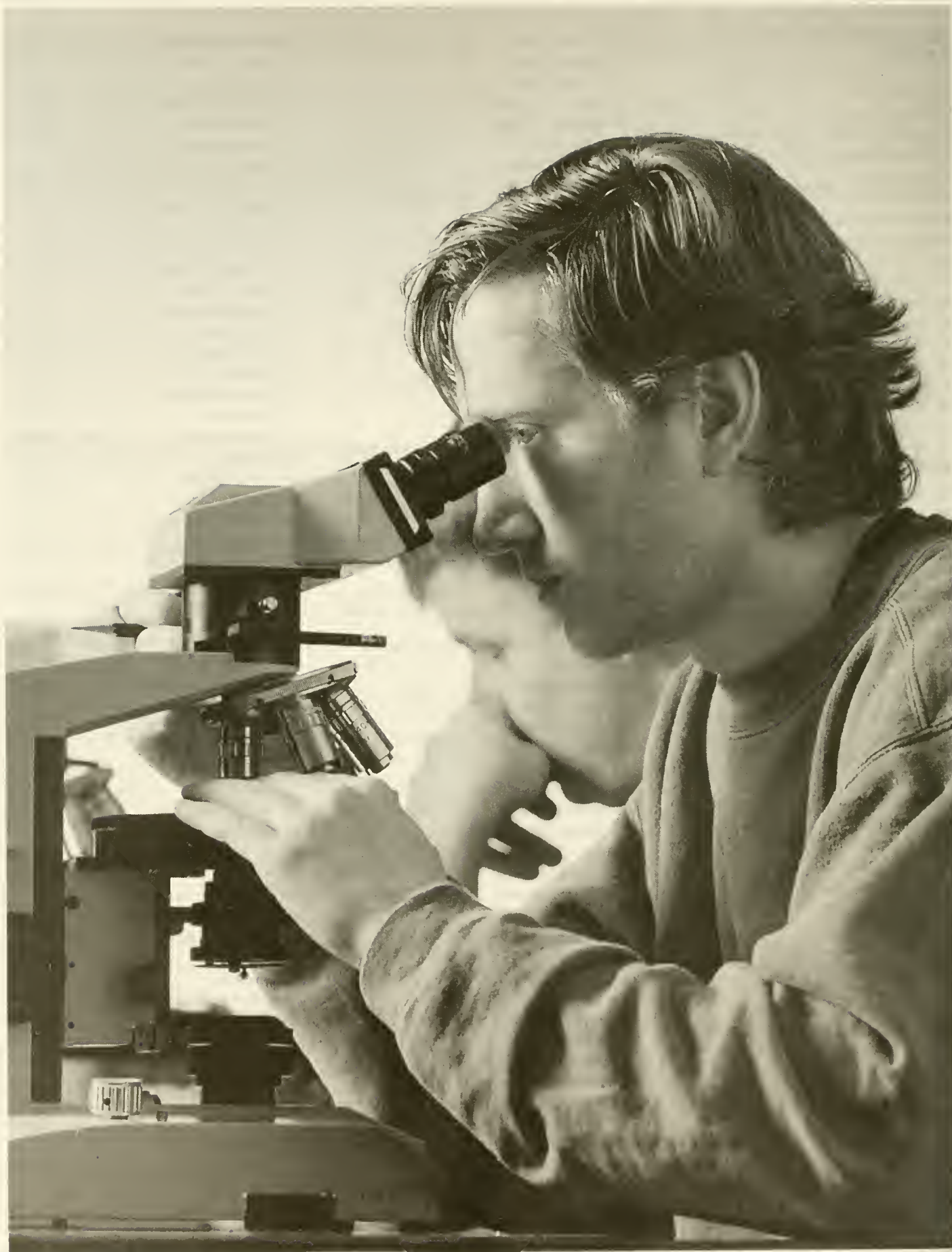
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 Dr. Arthur Madden
 Dr. Robert A. Magill
 Mr. Curtis Martin
 Dr. John Carter Matthews
 Dr. John W. McCleary
 Mr. George McGinty
 Dr. Thomas Meinhardt
 Mr. John Melick
 Dr. Lloyd D. Miller
 Dr. Donald I. Minnegan
 Dr. John Mitchell
 Mr. Raymond Moore
 Dr. Willoiam Moorefield

Dr. Frederick Morsink
 Dr. Harold E. Moser
 Dr. Armin Mruck
 Dr. Jacqueline Perreault Mulford
 Dr. Harold Muma
 Dr. Orrielle Murphy
 Dr. Theldon Myers
 Mr. Sam Nass
 Dr. Edward Neulander
 Dr. John Newman
 Dr. Lois Odell
 Miss Gwenyth J. O'Neill
 Dr. Charles C. Onion
 Ms. Carolyn Parmenter
 Ms. Jane Parson
 Dr. Caryl Peterson
 Ms. Barbara Pour
 Dr. Betty Lou Raskin
 Ms. Jean Pollack
 Mr. Stanley Pollack
 Mr. Jack Ray
 Mr. Edward Rubendall
 Dr. Henry Sanborn
 Dr. Marion Sargent
 Dr. Harvey L. Saxton
 Ms. Ruth Schwalm
 Dr. Louis Sheets
 Dr. Ruby Shubkagle
 Mrs. Dorothy Siegel
 Mr. Robert E. Smith
 Dr. Carlton W. Sprague
 Mr. Thomas Strader
 Dr. Joseph Suhorsky
 Ms. Mary Taylor
 Mr. John Terwilliger
 Dr. B. June Thearle
 Dr. John Toland
 Mr. Vincent Tricht
 Dr. Royce Van Norman
 Dr. Alexander Vlangas
 Mr. Milton Velder
 Ms. Marguerite L. VerKruzen
 Dr. William Wallace
 Ms. Harriet H. Warren
 Dr. Donald Wesley
 Ms. Jane Wiley
 Dr. Richard Williams
 Dr. Walter W. Williamson
 Dr. Alfred Wolkowitz
 Ms. Lucy Wood
 Mr. Phineas P. Wright
 Dr. Arthur Yarbrough
 Ms. Merle Yoder
 Dr. Robert Zeigler
 Dr. Carl Zimmerman
 Dr. Mildred Zindler
 Ms. Margaret C. Zipp



Appendix A

UNIVERSITY GOALS

I. By far the highest priority of the university shall be to provide a sound liberal arts and sciences education for all students regardless of their major or occupational ambitions.

- A. Guidelines for achieving this would include the following:
1. General education requirements shall provide the student with a coherent introduction to the basic concerns and concepts of the arts and sciences. The courses shall be designed to serve a general education purpose rather than to serve as introductions for majors. Interrelationships between the arts and sciences courses in the general education requirements shall be a goal of design and planning and shall be explicitly stressed in the classroom.
 2. The number of hours required for a major in a discipline shall not become so large as to interfere with the student's exposure to other disciplines and ultimate attainment of a liberal arts and science education. Every student should take at least 60 hours of course work outside the major.
 3. Majors will be encouraged to take courses in areas outside their major with the accompanying effort on the part of faculty in course design and evaluation to make it possible for non-majors to participate effectively in upper level courses outside their major.
 4. Some experience in interdisciplinary courses at upper and/or lower levels shall be available and encouraged.
 5. Some experience in multi-cultural studies and non-western cultures at upper and/or lower levels shall be available and encouraged.
 6. Students will be encouraged to study a foreign language for the benefits such study offers in understanding language itself, in understanding other cultures, and in mental discipline.
 7. A definition of undergraduate curriculum shall be formulated to serve as a guide to departments and university committees in order to avoid the creation of specialized courses that more properly belong at the graduate level.
 8. Literacy, defined as the ability to read, write, and speak. English intelligently, must be achieved by the student and stressed in all the courses in the curriculum in assignments and evaluation. Similarly, basic mathematical and basic scientific skills and concepts must be mastered by the student and should be stressed in all appropriate courses. Standards of literacy in these areas applied without exception will be established and maintained throughout the entire curriculum.
 9. An effective program of advisement shall be established to ensure that the student has the benefit of faculty advice on how to achieve a sound and coherent liberal education. The concern of the advisor will be with the student's total university experience, not just the courses in his/her major.
 10. To find out how effective our mutual efforts have been in providing a liberal arts and sciences education, systematic procedures should be developed and implemented to assess and evaluate student achievement.

II. The campus environment shall provide ideal conditions for learning -- learning between student and teacher, student and student, teacher and teacher, and between these and the staff, alumni, and citizens concerned with intellectual and professional pursuits.

- A. Guidelines for achieving this would include the following:
1. New ways have to be found to provide our students with a sense of community and common purpose in the learning process, to revive the sense of excitement in grappling with ideas or pursuing a problem. Special attention needs to be devoted to encouraging commuter students to engage in the informal opportunities for learning on campus.
 2. Faculty learning would be enhanced by more and better interaction with the students as described above, but faculty also

need to have more contact with faculty in other departments. The exchange of ideas, the increased understanding of the merits and problems of other disciplines, the enlarged perspective on the university as a whole, and a greater sense of community would be only a few of the benefits of such communication. Various possibilities for faculty interaction shall be studied and implemented.

3. The working conditions for faculty in terms of office space and number of students have a considerable influence on their ability to be effective. Providing adequate office space, i.e., private offices, and achieving a more favorable faculty/student ratio will be high priorities in building and remodeling design and budget allocations.
4. Community resources relevant to the academic pursuits of the university will be sought and utilized in the academic program.

III. The university shall support programs leading to the development of skills and knowledge.

- A. Guidelines for achieving this would include the following:
1. The academic preparation of the student should represent a balance between preparation in the liberal arts and training for a career. To achieve this balance the student will require careful advisement from both his or her academic major field and from other related disciplines. Courses designed to contribute to career development should supplement liberal arts preparation and should be taken after the student has carefully considered his or her interests and abilities.

IV. Excellence in student, faculty, and administrative performance shall be encouraged by relevant, constructive evaluation and recognition.

- A. Guidelines for achieving this would include the following:
1. Reasonably uniform expectations of students performance, in terms of amount of work in relation to credit hours and level or performance in relation to grades, shall be defined and maintained. Other methods of evaluation and reward will also be studied and considered.
 2. Students evaluations of faculty will be under continual review to determine their value as measures of excellence.
 3. Promotion and tenure criteria for faculty shall be defined and applied with reasonable consistency. Additional means of reward will be developed.
 4. Administrative performance shall be subject to faculty and student evaluation with the proviso indicated above in number 2.
 5. The university shall strive to cultivate in all members of the university community a dedication to excellence and a mutual respect for each other.

V. The university shall provide equal educational opportunity for the population it serves.

- A. Guidelines for achieving this would include the following:
1. The university shall strive to eliminate discrimination based on race, sex, religion, and age at all levels of university life with special attention given to:
 - (a) Fair admissions policies with concomitant compensatory education if needed.
 - (b) Academic and career advising that is free of stereotypes.
 - (c) A curriculum that makes every attempt to represent minority groups and women equitably.
 - (d) Classroom presentations that are free of derogation of race or sex.
 - (e) Equal opportunity recruitment, hiring, and advancement.
 2. The university shall strive for equity in the cost of education and in access to enrollment for full and part-time degree candidates.
 3. The university shall continue to develop programs and policies that respond to the emerging continuing education needs and interests of the population served by the university. Such programs and policies will be consistent with the University Mission Statement (See Appendix I).

VI. The university shall maintain its autonomy from unreasonable influence by outside governing bodies and special interest groups.

A. Guidelines for achieving this would include the following:

1. While it is reasonable that the governing boards and agencies of the state of Maryland have the right to establish policies for the university as a whole, the internal fiscal decision on how to implement those policies should remain the prerogative and responsibility of the university.
2. Similarly, once the total budget for the university has been determined, the internal decisions should remain the prerogative and responsibility of the university.
3. While cooperative ventures with individuals or groups with special interests may often be of mutual benefit, the university shall retain the right to reject such support if it is judged to be harmful to the academic interests of the university.

Appendix B

CAMPUS FACILITIES

ACADEMIC BUILDINGS

STEPHENS HALL -- This distinctive Jacobean building, constructed in 1915, has long been a landmark in the Baltimore area. Departmental and faculty offices as well as classrooms and laboratories for the College of Business and Economics, Mathematics and Computer and Information Sciences Departments are housed in this building. A 733-seat theater capable of supporting light opera and musicals is also located in Stephens Hall.

STEPHENS ANNEX -- This modular building was constructed in 1985 to provide office space during the renovation of Stephens Hall. It currently provides overflow faculty office space for the Departments of Communication Sciences and Disorders, Mass Communication, Mathematics, Computer and Information Sciences and Dance.

VAN BOKKELEN HALL -- A classroom building for the departments of Communication Sciences and Disorders and Speech and Mass Communication, this facility contains therapy rooms for speech pathology and audiology majors, as well as production studio for rehearsing radio and television broadcasts.

LINTHICUM HALL -- Completed in 1967 and one of the largest classroom buildings on campus, it houses the departments of English, Modern Language, History, Philosophy, Geography, Sociology, and Political Science, and associated offices.

SMITH HALL -- First occupied in 1965, the building was expanded in 1976 to 223,285 square feet to house the departments of Biology, Chemistry, Physics and Science Education. Included are plant growth chambers, greenhouses, reach-in environmental chambers, an aquarium room with aquatron, and controlled environmental animal rooms in addition to various classrooms and class laboratories. The Watson-King Planetarium is on the top floor.

BURDICK HALL -- Completed in 1968, it houses the departments of Nursing, Health Sciences, and Dance, and it contains facilities for intramural sports, an Olympic-sized swimming pool, classrooms, dance studios, three gymnasiums and various training and dressing rooms.

TOWSON CENTER -- The 100-acre physical education complex houses the Physical Education and Athletics departments and includes an arena, an all-weather track, 10 tennis courts with lighting, and separate fields for football, lacrosse, baseball, soccer, field hockey and softball. The building includes an arena with 165,000 square feet of floor space, six classrooms, a research laboratory, a curriculum center, student and faculty lounges, indoor archery and golf ranges, weight rooms, training areas and facilities, fencing, wrestling and gymnastic rooms, open teaching areas, five men's varsity locker rooms, four women's varsity locker rooms, four men's visiting team rooms, three women's visiting team rooms, six handball courts, four squash courts, two doubles squash courts, and a 60-foot long elevated press box.

LIDA LEE TALL -- Currently housed in LLT are the Writing Lab,

Student Day Care Center, the Aliza Brandwine Center for Parent-Infant Development offices, classrooms and laboratories of the Occupational Therapy Department, Institute for Teaching and Research on Women and Multicultural Studies Office.

ALBERTS. COOK LIBRARY -- This modern five-story building was completed in 1969. It is designed to shelve 600,000 volumes and provides seating for 600 students. Towson's long history is reflected in the extensive collections of bound volumes, reference works, and substantial holdings on microfilm. The Computer and Network Services Center is located on the ground floor. Also housed in Cook are the Tutorial Services Center, The Office of Telecommunications, Instructional Graphics and Audio/Visual Equipment Distribution Center.

MEDIA CENTER -- This building houses the offices of equipment circulation, information retrieval, television productions, cinematography by production, graphics, film loan services, still photography and audio productions and electronic repairs, constituting one of the best equipped audiovisual centers in the state. The campus radio station, WCVT-FM, is located in this building, as is the campus TV station, TSTV. The building also houses the English Language Center, the Women's Center and the International Students/Scholars Office.

FINE ARTS CENTER -- A \$6.5-million building, opened in 1973, houses the departments of Art, Music and Theatre Arts, as well as a main stage theatre, a studio theatre, concert hall, the Holtzman Art Gallery and the Roberts Room, which displays the university's extensive Asian Art Collection.

HAWKINS HALL -- Part of a three-building complex, it houses the Elementary, Secondary and Early Childhood Education departments. Named for the former president, Earle T. Hawkins, it is equipped with large, attractive classrooms which can be sectioned into several smaller rooms. Also included is a reading center, testing modules, and an independent production area with learning carrels.

PSYCHOLOGY BUILDING -- Part of the three-building complex that contains Hawkins Hall, it houses the Psychology department, including learning laboratories, animal laboratories, statistics laboratories and an auditorium with learning cubicles.

LECTURE HALL -- Part of the three-building complex that contains Hawkins Hall and the Psychology Building, it is equipped with broad space, a large electric screen, offices of the University Academic Center and Associate Dean, College of Liberal Arts. This is also the site of the Honors College Reading Room. Television cameras connect it with Hawkins Hall and the Psychology Building.

RESIDENCE HALLS

RESIDENCE TOWER -- This high-rise residence hall houses 463 students. It includes lounge areas and kitchens.

NEWELL HALL -- The first dormitory built on the university campus, housing 220 students, it has been renovated to an arrangement of double-loaded corridors to include small cluster living units. The units are self-contained to include small lounges, bathrooms and two or three student bedrooms. The building also includes the recently remodeled dining facilities, a recreation area, lounge, snack bar, Orientation Center, and Center for New Student Relations.

RICHMOND HALL -- This is the second building erected for student housing and is adjacent to Newell Hall. Its arrangement is similar to that of Newell Hall, and it houses 122 students.

WARD AND WEST HALLS -- Built in 1951, these twin residence halls were renovated in 1985. Air-conditioning was added to Ward Hall in 1986 and West Hall in 1987. The halls house both men and women, and each can accommodate about 57 students.

PRETTYMAN AND SCARBOROUGH HALLS -- Built around a court garden, these twin residence halls, completed in 1956 and 1964, provide rooms for 164 students each.

THE GLEN RESIDENCE COMPLEX -- A complex consisting of four (4) residence towers and a dining hall connected together by a landscaped patio/courtyard. A total of 1684 students, both male and female, can be housed in these modern motel style accommodations and can be served in the 540-seat dining facility overlooking "The Glen."

THE TOWSON RUN APARTMENTS -- This apartment complex which opened in August of 1990 has been designed to house 420 people in an apartment-type setting. It is open for both students or students and their spouses and features most of the conveniences of apartment-style living.

OTHER BUILDINGS

UNIVERSITY UNION -- Completed in 1971, this three-story structure houses food service facilities, Student Services offices, student lounge areas, meeting rooms, and varied recreational areas including bowling, billiards and electronic games. The campus Ticket Office, University Store, Post Office, and the Auxiliary Services Business Office (ID photos, parking services, TUniversal points accounts, and UNICOM long distance phone payments), as well as the offices of the Student Government Association, the student newspaper, *Towerlight*. Conferences, as well as dinners, dances, and other social events are also held in the building.

ADMINISTRATION BUILDING -- Completed in 1972, it houses the executive and administrative offices of the university in a tree-story modern building.

7720 YORK ROAD -- 7720 is a newly acquired building at the corner of York Road and Cross Campus Drive. This building will house the administration of the university, which is presently located in several buildings on campus. In addition, there will be a Visitors' Center for prospective students and a one-stop service center for all students.

THE BURKSHIRE AT Towson University --

The newest residential facility, adjacent to campus, is a 17-story apartment building intended for faculty, staff and qualifying students. The facility also contains The Burkshire Guest Suites and Conference Center, which make it suitable for professional meetings, conferences, luncheons and dinners, as well as social gatherings. Visiting parents, faculty, and staff may arrange to stay in the affordable luxury suites, enjoying convenient meals in the restaurant "Nathan T's" and refreshments in "Pub Smedley." An elevated footbridge crosses Burke Avenue to connect the main campus with The Burkshire property. Call 324-8100 for reservations or more information.

DOWELL HALL -- This building completed in 1962 houses Medical Treatment facilities on the lower floor consisting of treatment rooms, a 4-bed infirmary, and a whirlpool bath. The second floor is occupied by the Offices of Handicapped Students' Services and Mental Health.

GLEN ESK -- Formerly the home of the president, it is now occupied by the Counseling Center, which provides counseling and psychological services.

GENERAL SERVICES BUILDING -- These facilities opened in 1969 to consolidate the physical plant and other service operations. The building houses maintenance trade shops, the motor pool, headquarters for the police department, and central stores and receiving.

MINNEGAN STADIUM -- Completed in time for the fall, 1979 football season, the stadium is the home of Towson's NCAA Division IAA Tigers. There is an outdoor track. Seating for 5,000 fans can be expanded to double that number.

Each constituent institution in the University System of Maryland shall assess a non-refundable admission application fee for each applicant.

I. ADMISSION OF FRESHMEN

A. Regular Admission

1. Minimum Qualifications for Admission

(a) *Grade Point Average*

A high school grade point average of "C" or better is required for admission of full-time and part-time entering freshmen who have graduated from high school within five years of application for admission.

(b) *Predictive Index*

Each institution shall develop indices which include (a) scores on a nationally standardized admission examination such as SAT or ACT and (b) high school grade point averages for predicting academic success, and establish appropriate decision points on these indices. Applicants for regular admission must attain or exceed the established decision points. Each institution is encouraged to adopt admission standards above the minimum requirements as established by this policy.

(c) *Minimum High School Course Requirements*

(1) Subject to paragraphs I.A.1.c.(3) and I.A.3 of this policy, entering freshmen will be required to have completed successfully a specified program of high school academic courses. The following are the minimum requirements.

Subject	Year Courses
English	4
Social Science/History	3
Science (Lab)	2
Mathematics	3
Algebra I	
Geometry	
Algebra II	
Foreign Language	2
Electives	6
Total	<hr/> 20

(2) Notice shall be provided to local school systems at least two years prior to the implementation of additional or modified course requirements in order that students may prepare to meet them.

(3) For those instances in which applicants have not completed all of the required courses for admission, each institution shall establish a method of assessment through which a student can demonstrate competence equivalent to having passed a required high school course to qualify for admission.

(4) The University System of Maryland will cooperate with the staffs of the local school systems in delineating which courses meet these minimum requirements. A System-wide publication setting forth the requirements will be distributed directly to all secondary school systems.

2. Special Institution Requirements

With the approval of the President, an institution may establish special requirements for admission to certain academic programs. Notice shall be provided to local school systems at least two years prior to the implementation of these special requirements in order that students may prepare to meet them.

3. High School Equivalence Examination

For admissions purposes, the high school equivalence (General Education Development) examination standards established by the Maryland State Department of Education shall be used as an alternative to high school graduation.

Appendix C

ADMISSIONS POLICIES

Undergraduate admission requirements established by the Board of Regents of the University System of Maryland:

Admission to the institutions of the University System of Maryland shall be determined without regard to race, color, religion, national origin, sex, or physical handicap. Each institution is responsible for administering its admissions program to assure affirmative action and to achieve equal educational opportunity goals and timetables established for the institution. The institution's admission standards shall be published in its catalog.

4. Diagnostic/Placement Testing

The selection and administration of diagnostic/placement tests and the evaluation of the results are the responsibility of each institution. Institutions shall develop policies and procedures for such assessment based upon characteristics and needs of student populations.

5. Special Provisions

(a) *Early Admission and Concurrent Enrollment*

Early admission may be granted to a high school student who has demonstrated superior scholarship, as evidenced by his or her record or performance on standardized entrance examinations. On the basis of such evidence, each institution may also allow such students to enroll in its undergraduate classes concurrently with their enrollment in high school. Each institution which offers early admission and concurrent enrollment shall develop and publish written procedures.

(b) *Admission of Students from Non-accredited/Non-approved High Schools*

Freshman applicants for admission who are graduates of non-accredited/non-approved high schools will be reviewed individually, with consideration given to factors such as scores on standardized tests, high school course content, performance in high school academic courses, and the performance of previous students with similar academic preparation, and other appropriate criteria as developed by each institution.

(c) *Admission of Mature Adults*

Mature adults may be admitted without meeting the usual criteria for admission if the institution determines that the individuals applying have the potential for successful college work. The definition and policy to be applied to this category of students may be developed and implemented by each institution.

(d) *Admissions of International Students*

Procedures for admission of international students may be developed by each institution.

B. Individual Admission

Each institution may admit, to a maximum of 15 percent of its entering freshman class, students who do not reach the decision points on the institution's predictive indices but who show potential for success in post-secondary education. All students admitted in this individual admission category must be provided appropriate academic and other support services. Each institution shall develop written guidelines, in accord with this policy, concerning individual admission.

*For admissions purposes, a mature adult may be defined as one who is older than traditional undergraduates and who meets one or more of the following criteria: (1) The applicant is financially independent. (2) The applicant's primary responsibility is to duties other than being a student. These may be, for example, employment more than half-time or being a parent. (3) The applicant has not been enrolled in an educational institution for three years or more.

II. ADMISSION OF TRANSFER STUDENTS

A. Students who are transferring from other institutions with less than sophomore standing are required to meet minimum qualifications as set forth in Part I of this policy.

B. Students may transfer from non USM public institutions of higher education in Maryland in accordance with procedures established by the Maryland Higher Education Commission and in accordance with articulation agreements developed with such institutions. The University System of Maryland shall develop policies and procedures which will facilitate the transfer of students within the University System of Maryland, which policies shall be part of the policies of each institution. Students transferring from other institutions shall be admitted based on policies and procedures established by the receiving institution

C. Each institution shall participate in the system-wide computerized information system to assist prospective transfer students. Programs shall be developed, in cooperation with Maryland Community Colleges, which represent the lower division course work required for completion of a baccalaureate degree at that institution. Information about such articulated programs shall be available to potential transfer students to serve as a basis for advisement and student planning.

D. Procedures for admission of international students who have completed course work at another college or university must comply with applicable policies on transfer students. Additional procedures may be developed by each institution.

E. In the award of academic credit to transfer students for previous coursework, the pertinent guidelines of the American Association of Collegiate Registrars and Admissions Officers will be followed. Grades will not transfer.

F. Mature adults may be admitted as transfer students based on other criteria determined by each institution.

III. ADMISSION OF NON-DEGREE STUDENTS

Procedures for admission of non-degree students and procedures and conditions for changing from non-degree to degree status shall be developed by each institution.

IV. ADMISSION OF OUT-OF-STATE STUDENTS TO UNDERGRADUATE PROGRAMS

Each President may establish standards for out-of-state students that are above the undergraduate admission standards for in-state students. The limit on out-of-state *undergraduate* students in any institution, excluding University College, shall not exceed 30 percent of its total *undergraduate* student body.

V. ADMISSION OF GRADUATE STUDENTS

Each institution shall develop policies by which the graduate faculty of the institution will determine criteria and standards for the admission of students to graduate programs. These criteria and standards shall be published.

VI. ADMISSION OF POST-BACCALAUREATE PROFESSIONAL STUDENTS

Each institution shall develop policies by which the faculty of post-baccalaureate professional programs, schools, or colleges will determine the criteria and standards for the admission of students to these programs. These criteria and standards shall be published.

VII. INFORMATION DISSEMINATION

A. Information about the academic success of graduates of Maryland public high schools enrolled in the System institutions shall be provided to local school superintendents for graduates of schools within his or her system. Information concerning overall performance norms for all students enrolled in the institutions shall also be provided.

B. The System shall provide information on the first year achievement of community college transfer students to the colleges from which they transferred

Appendix D

TITLE 13B

MARYLAND HIGHER EDUCATION COMMISSION

Subtitle 06 GENERAL EDUCATION AND TRANSFER

Chapter 01 Public Institutions of Higher Education

Authority: Education Article, §§11-201 - 11-206, Annotated Code of Maryland

.01 Scope and Applicability.

This chapter applies only to public institutions of higher education.

.02 Definitions.

A. In this chapter, the following terms have the meanings indicated.

B. Terms Defined.

- (1) "A.A. degree" means the Associate of Arts degree.
- (2) "A.A.S. degree" means the Associate of Applied Sciences degree.
- (3) "Arts" means courses that examine aesthetics and the development of the aesthetic form and explore the relationship between theory and practice. Courses in this area may include fine arts, performing and studio arts, appreciation of the arts, and history of the arts.
- (4) "A.S. degree" means the Associate of Sciences degree.
- (5) "Biological and physical sciences" means courses that examine living systems and the physical universe. They introduce students to the variety of methods used to collect, interpret, and apply scientific data, and to an understanding of the relationship between scientific theory and application.
- (6) "English composition courses" means courses that provide students with communication knowledge and skills appropriate to various writing situations, including intellectual inquiry and academic research.
- (7) "General education" means the foundation of the higher education curriculum providing a coherent intellectual experience for all students.
- (8) "General education program" means a program that is designed to:
 - (a) Introduce undergraduates to the fundamental knowledge, skills, and values that are essential to the study of academic disciplines;
 - (b) Encourage the pursuit of life-long learning; and
 - (c) Foster the development of educated members of the community and the world.
- (9) "Humanities" means courses that examine the values and cultural heritage that establish the framework for inquiry into the meaning of life. Courses in the humanities may include the language, history, literature, and philosophy of Western and other cultures.
- (10) "Mathematics" means courses that provide students with numerical, analytical, statistical, and problem-solving skills.
- (11) "Native student" means a student whose initial college enrollment was at a given institution of higher education and who has not transferred to another institution of higher education since that initial enrollment.
- (12) "Parallel program" means the program of study or courses at one institution of higher education which has comparable objectives as those at another higher education institution, for example, a transfer program in psychology in a community college is definable as a parallel program to a baccalaureate psychology program at a 4-year institution of higher education.
- (13) "Receiving institution" means the institution of higher education at which a transfer student currently desires to enroll.
- (14) "Recommended transfer program" means a planned program of courses, both general education and courses in the major, taken at a community college, which is applicable to a baccalaureate program at a receiving institution, and ordinarily the first 2 years of the baccalaureate degree.
- (15) "Sending institution" means the institution of higher education of most recent previous enrollment by a transfer student at which transferable academic credit was earned.
- (16) "Social and behavioral sciences" means courses that examine the psychology of individuals and the ways in which individuals, groups, or segments of society behave, function, and influence one another. The courses include, but are not limited to, subjects which focus on:
 - (a) History and cultural diversity;
 - (b) Concepts of groups, work, and political systems;
 - (c) Applications of qualitative and quantitative data to social issues; and
 - (d) Interdependence of individuals, society, and the physical environment.
- (17) "Transfer student" means a student entering an institution for the first time having successfully completed a minimum of 12 semester hours at another institution which is applicable for credit at the institution the student is entering.

.03 General Education Requirements for Public Institutions.

- A. While public institutions have the autonomy to design their general education program to meet their unique needs and mission, that program shall conform to the definitions and common standards in this chapter. A public institution shall satisfy the general education requirement by:
 - (1) Requiring each program leading to the A.A. or A.S. degree to include not less than 30 and not more than 36 semester hours, and each baccalaureate degree program to include not less than 40 and not more than 46 semester hours of required core courses, with the core requiring, at a minimum, course work in each of the following five areas:
 - (a) Arts and humanities,
 - (b) Social and behavioral sciences,
 - (c) Biological and physical sciences,
 - (d) Mathematics, and
 - (e) English composition; or
 - (2) Conforming with COMAR 13B.02.02.16D(2)(b)-(c).
- B. Each core course used to satisfy the distribution requirements of §A(1) of this regulation shall carry at least 3 semester hours.
- C. General education programs of public institutions shall require at least:
 - (1) One course in each of two disciplines in arts and humanities;
 - (2) One course in each of two disciplines in social and behavioral sciences;
 - (3) Two science courses, at least one of which shall be a laboratory courses;
 - (4) One course in mathematics at or above the level of college algebra; and
 - (5) One course in English composition.
- D. Interdisciplinary and Emerging Issues.
 - (1) In addition to the five required areas in §A of this regulation, a public institution may include up to 8 semester hours in a sixth category that addresses emerging issues that institutions have identified as essential to a full program of general education for their students. These courses may:
 - (a) Be integrated into other general education courses or may be presented as separate courses; and
 - (b) Include courses that:
 - (i) Provide an interdisciplinary examination of issues across the five areas, or
 - (ii) Address other categories of knowledge,

skills, and values that lie outside of the five areas.

- (2) Public institutions may not include the courses in this section in a general education program unless they provide academic content and rigor equivalent to the areas in §A(1) of this regulation.

- E. General education programs leading to the A.A.S. degree shall include at least 20 semester hours from the same course list designated by the sending institution for the A.A. and A.S. degrees. The A.A.S. degree shall include at least one 3-semester-hour course from each of the five areas listed in §A(1) of this regulation.
- F. A course in a discipline listed in more than one of the areas of general education may be applied only to one area of general education.
- G. A public institution may allow a speech communication or foreign language course to be part of the arts and humanities category.
- H. Composition and literature courses may be placed in the arts and humanities area if literature is included as part of the content of the course.
- I. Public institutions may not include physical education skills courses as part of the general education requirements.
- J. General education courses shall reflect current scholarship in the discipline and provide reference to theoretical frameworks and methods of inquiry appropriate to academic disciplines.
- K. Courses that are theoretical may include applications, but all applications courses shall include theoretical components if they are to be included as meeting general education requirements.
- L. Public institutions may incorporate knowledge and skills involving the use of quantitative data, effective writing, information retrieval, and information literacy when possible in the general education program.
- M. Notwithstanding §A(1) of this regulation, a public 4-year institution may require 48 semester hours of required core courses if courses upon which the institution's curriculum is based carry 4 semester hours.
- N. Public institutions shall develop systems to ensure that courses approved for inclusion on the list of general education courses are designed and assessed to comply with the requirements of this chapter.

.04 Transfer of General Education Credit.

- A. A student transferring to one public institution from another public institution shall receive general education credit for work completed at the student's sending institution as provided by this chapter.
- B. A completed general education program shall transfer without further review or approval by the receiving institution and without the need for a course-by-course match.
- C. Courses that are defined as general education by one institution shall transfer as general education even if the receiving institution does not have that specific course or has not designated that course as general education.
- D. The receiving institution shall give lower-division general education credits to a transferring student who has taken any part of the lower-division general education credits described in Regulation .03 of this chapter at a public institution for any general education courses successfully completed at the sending institution.
- E. Except as provided in Regulation .03M of this chapter, a receiving institution may not require a transfer student who has completed the requisite number of general education credits at any public college or university to take, as a condition of graduation, more than 10-16 additional semester hours of general education and specific courses

required of all students at the receiving institution, with the total number not to exceed 46 semester hours. This provision does not relieve students of the obligation to complete specific academic program requirements or course prerequisites required by a receiving institution.

- F. A sending institution shall designate on or with the student transcript those courses that have met its general education requirements, as well as indicate whether the student has completed the general education program.
- G. A.A.S. Degrees.
 - (1) While there may be variance in the numbers of hours of general education required for A.A., A.S., and A.A.S. degrees at a given institution, the courses identified as meeting general education requirements for all degrees shall come from the same general education course list and exclude technical or career courses.
 - (2) An A.A.S. student who transfers into a receiving institution with fewer than the total number of general education credits designated by the receiving institution shall complete the difference in credits according to the distribution as designated by the receiving institution. Except as provided in Regulation .03M of this chapter, the total general education credits for baccalaureate degree-granting public receiving institutions may not exceed 46 semester hours.
- H. Student Responsibilities. A student is held:
 - (1) Accountable for the loss of credits that:
 - (a) Result from changes in the student's selection of the major program of study,
 - (b) Were earned for remedial course work, or
 - (c) Exceed the total course credits accepted in transfer as allowed by this chapter; and
 - (2) Responsible for meeting all requirements of the academic program of the receiving institution.

.05 Transfer of Nongeneral Education Program Credit.

A. Transfer to Another Public Institution.

- (1) Credit earned at any public institution in the State is transferable to any other public institution if the:
 - (a) Credit is from a college or university parallel course or program;
 - (b) Grades in the block of courses transferred average 2.0 or higher; and
 - (c) Acceptance of the credit is consistent with the policies of the receiving institution governing native students following the same program.
- (2) If a native student's "D" grade in a specific course is acceptable in a program, then a "D" earned by a transfer student in the same course at a sending institution is also acceptable in the program. Conversely, if a native student is required to earn a grade of "C" or better in a required course, the transfer student shall also be required to earn a grade of "C" or better to meet the same requirement.

B. Credit earned in or transferred from a community college is limited to:

- (1) 1/2 the baccalaureate degree program requirement, but may not be more than 70 semester hours; and
- (2) The first 2 years of the undergraduate education experience.

C. Nontraditional Credit.

- (1) The assignment of credit for AP, CLEP, or other nationally recognized standardized examination scores presented by transfer students is determined according to the same standards that apply to native students in the receiving institution, and the assignment shall be consistent with the State minimum requirements.
- (2) Transfer of credit from the following areas shall be consistent with COMAR 13B.02.02, and shall be

evaluated by the receiving institution on a course-by-course basis:

- (a) Technical courses from career programs;
 - (b) Course credit awarded through articulation agreements with other segments or agencies;
 - (c) Credit awarded for clinical practice or cooperative education experiences; and
 - (d) Credit awarded for life and work experiences.
- (3) The basis for the awarding of the credit shall be indicated on the student's transcript by the receiving institution.
 - (4) The receiving institution shall inform a transfer student of the procedures for validation of course work for which there is no clear equivalency. Examples of validation procedures include ACE recommendations, portfolio assessment, credit through challenge, examinations, and satisfactory completion of the next course in sequence in the academic area.
 - (5) The receiving baccalaureate degree-granting institution shall use validation procedures when a transferring student successfully completes a course at the lower division level that the receiving institution offers at the upper division level. The validated credits earned for the course shall be substituted for the upper division course.

D. Program Articulation.

- (1) Recommended transfer programs shall be developed through consultation between the sending and receiving institutions. A recommended transfer program represents an agreement between the two institutions that allows students aspiring to the baccalaureate degree to plan their programs. These programs constitute freshman/sophomore level course work to be taken at the community college in fulfillment of the receiving institution's lower division course work requirement.
- (2) Recommended transfer programs in effect at the time that this regulation takes effect, which conform to this chapter, may be retained.

.06 Academic Success and General Well-Being of Transfer Students.

A. Sending Institutions.

- (1) Community colleges shall encourage their students to complete the associate degree or to complete 56 hours in a recommended transfer program which includes both general education courses and courses applicable toward the program at the receiving institution.
- (2) Community college students are encouraged to choose as early as possible the institution and program into which they expect to transfer.
- (3) The sending institution shall:
 - (a) Provide to community college students information about the specific transferability of courses at 4-year colleges;
 - (b) Transmit information about transfer students who are capable of honors work or independent study to the receiving institution; and
 - (c) Promptly supply the receiving institution with all the required documents if the student has met all financial and other obligations of the sending institution for transfer.

B. Receiving Institutions.

- (1) Admission requirements and curriculum prerequisites shall be stated explicitly in institutional publications.
- (2) A receiving institution shall admit transfer students from newly established public colleges that are functioning with the approval of the Maryland Higher Education Commission on the same basis as applicants from regionally accredited colleges.

- (3) A receiving institution shall evaluate the transcript of a degree-seeking transfer student as expeditiously as possible, and notify the student of the results not later than mid-semester of the student's first semester of enrollment at the receiving institution, if all official transcripts have been received at least 15 working days before mid-semester. The receiving institution shall inform a student of the courses which are acceptable for transfer credit and the courses which are applicable to the student's intended program of study.
- (4) A receiving institution shall give a transfer student the option of satisfying institutional graduation requirements that were in effect at the receiving institution at the time the student enrolled as a freshman at the sending institution. In the case of major requirements, a transfer student may satisfy the major requirements in effect at the time when the student was identifiable as pursuing the recommended transfer program at the sending institution. These conditions are applicable to a student who has been continuously enrolled at the sending institution.

.07 Programmatic Currency.

- A. A receiving institution shall provide to the community college current and accurate information on recommended transfer programs and the transferability status of courses. Community college students shall have access to this information.
- B. Recommended transfer programs shall be developed with each community college whenever new baccalaureate programs are approved by the degree-granting institution.
- C. When considering curricular changes, institutions shall notify each other of the proposed changes that might affect transfer students. An appropriate mechanism shall be created to ensure that both 2-year and 4-year public colleges provide input or comments to the institution proposing the change. Sufficient lead time shall be provided to effect the change with minimum disruption. Transfer students are not required to repeat equivalent course work successfully completed at a community college.

.08 Transfer Mediation Committee.

- A. There is a Transfer Mediation Committee, appointed by the Secretary, which is representative of the public 4-year colleges and universities and the community colleges.
- B. Sending and receiving institutions that disagree on the transferability of general education courses as defined by this chapter shall submit their disagreements to the Transfer Mediation Committee. The Transfer Mediation Committee shall address general questions regarding existing or past courses only, not individual student cases, and shall also address questions raised by institutions about the acceptability of new general education courses. As appropriate, the Committee shall consult with faculty on curricular issues.
- C. The findings of the Transfer Mediation Committee are considered binding on both parties.

.09 Appeal Process.

- A. Notice of Denial of Transfer Credit by a Receiving Institution.
 - (1) Except as provided in §A(2) of this regulation, a receiving institution shall inform a transfer student in writing of the denial of transfer credit not later than mid-semester of the transfer student's first semester, if all official transcripts have been received at least 15 working days before mid-semester.
 - (2) If transcripts are submitted after 15 working days before mid-semester of a student's first semester, the

receiving institution shall inform the student of credit denied within 20 working days of receipt of the official transcript.

- (3) A receiving institution shall include in the notice of denial of transfer credit:
 - (a) A statement of the student's right to appeal; and
 - (b) A notification that the appeal process is available in the institution's catalog.
- (4) The statement of the student's right to appeal the denial shall include notice of the time limitations in §B of this regulation.

B. A student believing that the receiving institution has denied the student transfer credits in violation of this chapter may initiate an appeal by contacting the receiving institution's transfer coordinator or other responsible official of the receiving institution within 20 working days of receiving notice of the denial of credit.

C. Response by Receiving Institution.

- (1) A receiving institution shall:
 - (a) Establish expeditious and simplified procedures governing the appeal of a denial of transfer of credit; and
 - (b) Respond to a student's appeal within 10 working days.
- (2) An institution may either grant or deny an appeal. The institution's reasons for denying the appeal shall be consistent with this chapter and conveyed to the student in written form.
- (3) Unless a student appeals to the sending institution, the writing decision in §C(2) of this regulation constitutes the receiving institution's final decision and is not subject to appeal.

D. Appeal to Sending Institution.

- (1) If a student has been denied transfer credit after an appeal to the receiving institution, the student may request the sending institution to intercede on the student's behalf by contacting the transfer coordinator of the sending institution.
- (2) A student shall make an appeal to the sending institution within 10 working days of having received the decision of the receiving institution.

E. Consultation Between Sending and Receiving Institutions.

- (1) Representatives of the two institutions shall have 15 working days to resolve the issues involved in an appeal.
- (2) As a result of a consultation in this section, the receiving institution may affirm, modify, or reverse its earlier decision.
- (3) The receiving institution shall inform a student in writing of the result of the consultation.
- (4) The decision arising out of a consultation constitutes the final decision of the receiving institution and is not subject to appeal.

.10 Periodic Review.

A. Report by Receiving Institution.

- (1) A receiving institution shall report annually the progress of students who transfer from 2-year and 4-year institutions within the State to each community college and to the Secretary of the Maryland Higher Education Commission.
- (2) An annual report shall include ongoing reports on the subsequent academic success of enrolled transfer students, including graduation rates, by major subject areas.
- (3) A receiving institution shall include in the reports comparable information on the progress of native students.

B. Transfer Coordinator. A public institution of higher education shall designate a transfer coordinator, who serves

as a resource person to transfer students at either the sending or receiving campus. The transfer coordinator is responsible for overseeing the application of the policies and procedures outlined in this chapter and interpreting transfer policies to the individual student and to the institution.

- C. The Maryland Higher Education Commission shall establish a permanent Student Transfer Advisory Committee that meets regularly to review transfer issues and recommend policy changes as needed. The Student Transfer Advisory Committee shall address issues of interpretation and implementation of this chapter.

Appendix E

I. RESIDENCY POLICY

RESIDENCE STATUS FOR TUITION PURPOSES

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a non-resident of Maryland for tuition purposes. Thus, there may be a distinction between legal residence requirements and residence for tuition purposes.

It is the policy of the Board of Regents of the University System of Maryland to recognize the categories of in-state and out-of-state students for purposes of admission, tuition, and charge differentials at those institutions where such differentiation has been established. The student is responsible for providing the information necessary to establish eligibility for in-state status. All criteria must be met 12 months before the start of the semester in which in-state residency status, for the purpose of tuition and charge differential, is sought.

A. Students who are financially independent or financially dependent, as hereinafter defined, shall have their residency classification determined on the basis of permanent residency. For purposes of this policy, a permanent residence is a person's permanent place of abode as determined by the following criteria. Such students will be assigned in-state status for admission, tuition, and charge differential purposes only if the student (if financially independent) or the student's parent, guardian, or spouse (in the case of a financially dependent student):

1. Owns or rents and occupies living quarters in Maryland. There must exist a genuine deed or lease in the individual's name reflecting payments/rents and terms typical of those in the community at the time executed. Persons not having such a lease may submit an affidavit reflecting payments/rents and terms as well as the name and address of the person to whom payments are made which may be considered as meeting this condition. As an alternative to ownership or rental of living quarters in Maryland, a student may share living quarters in Maryland which are owned or rented and occupied by a parent, legal guardian, or spouse;
2. Maintains within Maryland substantially all personal property;
3. Pays Maryland income tax on all earned taxable income including all taxable income earned outside the State;
4. Registers all owned motor vehicles in Maryland in accordance with Maryland law;
5. Possesses a valid Maryland driver's license, if licensed, in accordance with Maryland law;
6. Is registered in Maryland, if registered to vote;
7. Receives no public assistance from a state other than the State of Maryland or from a city, county, or municipal agency other than one in Maryland, and;
8. Has a legal ability under federal and Maryland law to reside permanently without interruption in Maryland.

- B. In addition to meeting all of the criteria set forth in the preceding section, to qualify for in-state status on the basis of permanent residence, a student or, if the student is financially dependent, the parent, legal guardian, or spouse, must have resided in Maryland for at least twelve (12) consecutive months immediately prior to and including the last date available for late registration for the forthcoming semester or session and must have continuously resided in Maryland during that period.
- C. If a student is financially dependent as hereinafter defined, the permanent residence of the parent, guardian, or spouse on whom he/she is dependent shall determine in-state status. If a student is financially independent, the permanent residence of the student shall determine in-state status.
- D. In-state status based on permanent residence is lost at any time a financially independent student establishes a permanent residence outside the State of Maryland. If the parent, guardian, or spouse through whom a financially dependent student has attained in-state status establishes a permanent residence outside the State of Maryland, the in-state status is lost. In each instance, the student will then be assessed out-of-state tuition and charges beginning the next semester or session.
- E. In addition, the following categories of students shall have in-state status:
 - 1. A full-time or part-time (at least 50 percent time) permanent employee of the University System of Maryland;
 - 2. The spouse or dependent child of a full-time or part-time (at least 50 percent time) permanent employee of the University System of Maryland;
 - 3. A full-time active member of the Armed Forces of the United States, or U.S. Public Health Service whose home of residency is Maryland or one who resides or is stationed in Maryland, or the spouse or a financially dependent child of such a person; and
 - 4. A graduate assistant.
- F. Students not entitled to in-state status under the preceding paragraphs shall be assigned out-of-state status for admission, tuition, and charge-differential purposes.

II. PROCEDURES

- A. The date on which conditions for in-state classification must be met is the last published date to register for the forthcoming semester or session. In those instances where an entering class size is established and where an application deadline is stated, institutions may require that conditions for in-state classification must be satisfied as of the announced closing application date.
- B. A change in status must be requested in writing by a student prior to the last published date of registration in order to be effective for that semester or session. A student applying for a change to in-state status must furnish appropriate documentation as required by the institution.
- C. The student shall notify the institution in writing within fifteen (15) days of any change or circumstances which may alter in-state status.
- D. In the event incomplete, false, or misleading information is presented, the institution may, at its discretion, revoke an assignment of in-state status in addition to other disciplinary actions provided for by the institution's policy.
- E. Each institution of the University System of Maryland shall develop and publish additional procedures to implement this policy. Procedures shall provide that on request the President or designee has the authority to waive any residency requirement as set forth in 1A and 1B, if it is determined that the student is indeed a permanent resident and application of the criteria creates an unjust result. Such procedures must provide for appeal to the President or designee of any residency determination using a system-wide petition form. These procedures shall be filed with the office of the Chancellor.

III. DEFINITIONS

- A. **Financially Dependent:** For the purposes of this policy, a financially dependent student is one who is claimed as a dependent for tax purposes, or who receives more than one-half of his or her support from a parent, legal guardian, or spouse during the twelve (12) month period immediately prior to the last published date for registration for the semester or session. If a student receives more than one-half of his or her support in the aggregate from a parent and/or legal guardian and/or spouse, the student shall be considered financially dependent on the person providing the greater amount of support.
- B. **Financially Independent:** A financially independent student is one who (1) declares himself or herself to be financially independent as defined herein; (2) does not appear as a dependent on the Federal or State income tax return of any other person; (3) receives less than one-half of his or her support from any other person or persons; and (4) demonstrates that he or she provides through self-support one-half or more of his or her total expenses.
- C. **Parent:** A parent may be a natural parent, or, if established by a court order recognized under the law of the State of Maryland, an adoptive parent.
- D. **Guardian:** A guardian is a person so appointed by a court order recognized under the law of the State of Maryland.
- E. **Spouse:** A spouse is a partner in a legally contracted marriage.
- F. **Support:** (1) Except as set forth in (2) below, support shall mean financial or material support, including gifts, services, and trusts, including income or benefits derived from one's family. (2) Support shall not include grants, stipends, awards, and benefits (including Federal and State student aid, grants, and loans) received for the purpose of education or by virtue of an individual's status or prospective status as a student. Such resource shall not be considered in calculating a student's financial dependence or independence.

IV. RESIDENCY TUITION APPEAL PROCEDURE

- A. **Prerequisites:**
 - 1. In order to appeal a residency tuition denial, you must first have been denied in-state residency status by one of the following:
 - (a) The Admissions Office
 - (b) The Graduate School
 - (c) The Registrar's Office.
 - (d) Office for Non-Traditional Undergraduate Programs
 - 2. If you *have not* been denied by one of the above, please contact the appropriate office for instructions.
- B. **Appeal Process:**
After your petition for in-state status has been denied by one of the offices listed above, you may appeal the decision of denial as follows:
 - 1. Write a *formal letter of appeal* stating pertinent facts about your case. **You must address the issues of the original denial. The appeal must be filed within fifteen working days from the date of the initial denial letter.**
 - 2. Address your appeal letter to the Towson University Residency Tuition Review Committee (RTRC), c/o Mr. Dan Leonard, Asst. To the President, Adm. Bldg., Room 303. Include your current local address and social security number.
 - (a) You may submit any clarification or additional documentation with the letter of appeal.
 - (b) *Temporary Tuition Payment: Pending Appeal.* If you wish to pay in-state tuition until your appeal has been resolved, you must obtain a "PENDING MEMO" from the office with which you originally filed materials. Please contact the appropriate office.

Appendix F

THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

The Family Educational Rights and Privacy Act of 1974 is a Federal Law which provides that the institution must maintain the confidentiality of student education records. This law states (a) that a written institutional policy must be established and (b) that a statement of adopted procedures covering the privacy rights of students be made available. The University has taken the appropriate steps to comply with this law.

Towson University accords all the rights under the law to students who have reached the age of majority. Information may be released to parents who have established the students' dependency as defined by the Internal Revenue Code of 1954, Section 152. The Judicial Affairs office will review the parent's claim of dependency and notify the student of the claim prior to release of any academic information. Except as permitted under the act, no one outside the institution shall have access to any information from the students' education records without the written consent of students. Those people permitted access under the Act include personnel within the institution, officials of other institutions in which students seek to enroll, persons or organizations providing financial aid, accrediting agencies, persons in compliance with a judicial order and persons in an emergency acting in order to protect the health or safety of others.

Within the Towson University community, only those individuals acting in the students' educational interest are allowed access to student education records. This includes personnel in the offices of Admissions, Academic, Advising, Registrar, Bursar, Financial Aid, and other academic personnel within the limitations of their need to know. The Registrar may grant access to educational records for other legitimate reasons permitted under the Act.

The University may provide **Directory Information** in accordance with the provisions of the Act without the written consent of the student. **Directory information includes:** student name, address, telephone numbers, date and place of birth, major field of study, dates of attendance, degrees and awards received, the most recent previous educational institution attended by the student, participation in officially recognized activities and sports, and the weight and height of members of athletic teams. The Registrar's Office will release Directory Information at its discretion and may release Directory Information over the telephone or in writing. Students may withhold Directory Information by notifying the Registrar in writing within two weeks after the first day of class.

A request for non-disclosure will be honored for only one academic year; thereafter, authorization to withhold Directory Information must be filed annually with the Registrar.

The law provides students with the right to inspect and review information contained in their education records. The Registrar at Towson University has been designated to coordinate the inspection and review of student educational records. Students wishing to review their education records must make written requests to the Registrar. Records covered by the Act will be made available within thirty days of the request. Students may have copies made of their records with certain exceptions (e.g., a copy of the original or source document which exists elsewhere or when student has an outstanding financial obligation to the University.) Copies would be made at the students' expense. Education records do not necessarily include records of instructional, administrative, and educational personnel which are the sole possession of the maker. Health records, employment records or alumni records will not be released to the students, but may be reviewed by the student or physicians of the students' choosing.

As stated in the Act, students may not inspect and review the following: financial information submitted by their parents, confidential letters and recommendations associated with admissions, employment or job placement or honors to which they have waived their rights of inspection and review. Educational records containing information about more than one student are restricted and the

institution will permit access only to that part of the record which pertains to the student. The institution will not permit students to inspect and review confidential letters and recommendations placed in their files prior to January 1, 1975.

The University has established an appeal mechanism in accordance with the Act. Students who believe that their education records contain information that is inaccurate or misleading, or unlawful may discuss their problems informally with the Registrar. The Registrar may agree with the request, and the appropriate records will be amended; If the students' petitions are denied, the students will be informed by the Registrar of their right to a formal hearing. Requests for formal hearings must be made in writing to the Vice President for Academic Affairs, who will inform students of the date, place, and time of the hearing. Students may present evidence and may be assisted or represented at the hearings by counsel. The hearing panel which will adjudicate such challenges may comprise the Vice President for Academic Affairs, the Vice President for Student Life, the Graduate Dean, and the Academic Dean of the student's college. Decisions of the hearing panel will be final. The findings will be based solely on the evidence presented at the hearing, and will consist of written statements summarizing the evidence and stating the reasons for the decisions, and will be delivered to all parties concerned. The education records will be corrected or amended in accordance with the decisions of the hearing panel. Students dissatisfied with the outcome of their hearing may prepare a written statement which will be placed in the education records and maintained as part of the student's records.

Those students who believe that the adjudications of the challenges were unfair, or not in keeping with the provisions of the act, may request that the hearing be reviewed by the President of the University. In addition, students who believe that their rights have been abridged, may file complaints with The Family Educational Rights and Privacy Act Office (FERPA), Department of Health, Education and Welfare, Washington, D.C. 20201, concerning the alleged failures of Towson University to comply with the Act. Revisions and clarifications will be published as experience with the law and institution's policy warrants.

Appendix G

FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS POLICY

Introduction

Federal regulations require that institutions of higher education establish minimum standards of "Satisfactory Academic Progress" for students receiving financial aid. This means the Financial Aid Office is required to measure each financial aid recipient's progress towards obtaining a degree. To be making satisfactory academic progress, students are required to complete a minimum number of credits each semester and maintain a minimum grade point average as outlined below.

Requirements	Undergraduate	Graduate
Completion Rate: Percentage of attempted credits that must be earned	1-23 total credits attempted—65% must be earned; 24-59 total credits attempted—75% must be earned; 60 or more total credits attempted—80% must be earned	1-11 total credits attempted—65% earned; 12 or more total credits attempted—80% must be earned
Minimum G.P.A.	0-29 credits earned—1.50 minimum GPA 30-59 credits earned—1.75 minimum GPA 60 or more credits earned—2.00 minimum GPA*	3.00 minimum GPA
Time Frame	Degree must be completed within 160 total attempted credit hours	Degree must be completed within 7 years

*Juniors and Seniors must have a 2.00 minimum grade point average.

Additional Information

Developmental courses will be counted in a student's attempted and earned hours for financial aid SAP purposes only. Please note that this differs from the university's academic policy.

Students who withdraw from the University for medical reasons will be allowed a *one-time* exclusion of their attempted credit hours for *one* semester in which they medically withdraw.

To receive financial aid, in addition to maintaining satisfactory academic progress as outlined in this policy, students must be formally admitted to a degree or certificate program and maintain good academic standing with the university as outlined in the *University Catalog*. Academic suspension or dismissal, and disciplinary suspension or expulsion from the University will result in an automatic cancellation of financial aid.

Grades Which Are Not Counted Toward Credits Completed

The following grades are not considered when counting credits completed: AU (Audit), W (Withdraw), I (Incomplete), U (Unsatisfactory), F or FX (Failure).

Appeal Process

All students have the right to appeal when they are notified that they are ineligible to receive financial aid because they are not making satisfactory academic progress. All appeals must be written and clearly state the student's special circumstances and the specific means by which a student intends to attain satisfactory academic progress. All appeals should be sent to the Director of Financial Aid.

SATISFACTORY ACADEMIC PROGRESS--GRADUATE STUDENTS

Graduate students must complete at least 6 credits for each graduate semester attended and maintain a cumulative grade point average of at least 3.0. Below are the minimum credits and grade point average required to be making satisfactory academic progress for graduate students:

Number of Semesters Attempted	Minimum Credits Required	Minimum GPA Required
2	12	3.0
3	18	3.0
4	24	3.00
5	30	3.00
6	36	3.00
7	42	3.00
8	48	3.00
9	54	3.00
10	60	3.00

GRADES WHICH ARE NOT COUNTED TOWARDS CREDITS COMPLETED

The following grades are not considered when counting credits completed:

Grade of:
Au -- Audit
W -- Withdraw
I -- Incomplete
U -- Unsatisfactory
F or FX -- Failure

Please note: Any semester in which a student receives grades of "W" or "I" is still counted as a semester attempted.

Transfer credits are not counted in total credits completed; the student's progress is measured by the number of semesters attempted at Towson.

ADDITIONAL INFORMATION

Every Fall and Spring semester is counted as a semester attempted, regardless of whether or not the student was a financial aid recipient, or a matriculating student during that semester.

Summer and Minimester semesters do not count as semesters attempted, but the credits earned during these terms are counted in total credits completed.

All students must be degree candidates in order to receive financial aid. Academic dismissal or disciplinary suspension from the University will result in automatic cancellation of financial aid.

Students withdrawing from the University will have their financial aid adjusted in accordance with the University's refund policy and Federal requirements.

FINANCIAL AID PROBATION

Students who are 6 or less credits short of making satisfactory academic progress will be put on financial aid probation. Probation is a warning to the student. Students are put on probation only once. If a student has already been put on probation and subsequently falls 6 or less credits behind, that student will not be eligible to receive financial aid.

APPEAL PROCESS

All students have the right to make a written appeal if they are notified that they are ineligible to receive financial aid because they are not making satisfactory academic progress. *Probation cannot be appealed.* Students who feel that they have special circumstances which prevented them from making satisfactory progress should send a written appeal to the Director of Financial Aid. All appeals must be written and must clearly state the student's special circumstances and the specific means by which the student intends to attain satisfactory academic progress.

Appendix H

STATEMENT OF THE UNIVERSITY'S RELATIONSHIP TO THE CAMPUS MINISTRIES

Towson University reaffirms the freedom of students, faculty and staff to exercise religious choice; therefore, the University does not legislate nor bind with policy its support for this most necessary freedom.

Towson University also reaffirms that students, faculty and staff have the right to have their religious needs served. The campus ministries exist at Towson as a service to the entire campus community. Therefore, the ministries are self-determined by their own creativity and the needs of their constituencies. Space for religious services is obtained through normal channels.

Appendix I

CODE OF CONDUCT

I. Student Right and Responsibilities

A. Preamble

Academic institutions exist for the transmission of knowledge, the pursuit of truth, the development of students, and the general well being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students should be encouraged to develop the capacity for critical judgement and to engage in a sustained and independent search for truth. Freedom to teach and freedom to learn are inseparable facets of academic freedom. The freedom to learn depends upon appropriate opportunities and conditions in the classroom, on the campus, and in the larger community. Students should exercise their freedom with responsibility. The responsibility to secure and respect general conditions conducive to the freedom to learn is shared by all members of the community. The present code is designed to establish policies and procedures which provide and safeguard this freedom.

B. Purpose

Towson University's mission to the community at large is one of academic excellence and achievement. To that end, its campus community must be one wherein respect for the individual pursuit of academic excellence and achievement is given priority. In order to foster this environment, it is incumbent upon students to conduct themselves within the framework of the reasonable rules and regulations designed to enhance and protect the academic environment of the University. By specifying behavioral standards and by establishing fair and efficient processes for adjudicating conflict, the University seeks to protect the environment in which learning is nurtured and respect for that goal is continually afforded.

C. Individual Rights and Responsibilities

1. Access to higher education

- a. Within the limits of its facilities, the institution and its courses, programs and activities shall be open to all applicants who are qualified according to its admission requirements.
 - (1) The institution shall, in the UNIVERSITY CATALOG, make clear to the students the standards of its programs.
 - (2) Under no circumstances may a qualified applicant be denied admission because of race, color, ethnic background, national origin, religion, sex, or condition of handicap.

2. Classroom Expression

- a. Discussion and expression of all views relevant to the subject matter are permitted in the classroom, subject only to the responsibility of the instructor to maintain order and reasonable academic progress.
 - (1) Faculty comportment shall be in accordance with standards set forth by the American Association of University Professors.
 - (2) Students shall not be penalized for expressing controversial views relevant to the subject matter in class.
- b. Evaluation of a student's academic performance shall be neither prejudiced nor capricious.

3. Personal Expression

- a. Discussion and expression of all views is permitted within the institution, subject only to requirements for

the maintenance of order. Support of any cause, by orderly means which do not disrupt the operation of the institution, is permitted.

- b. Students, groups, and campus organizations may invite and hear any persons of their own choosing, subject only to the requirements of the use of institutional facilities and regulations of the University, and the Board of Regents of the University System of Maryland.
 - c. Students' dress and grooming, of any style, are permitted subject only to legal prohibitions.
 - d. A student group or organization may distribute written material on campus, providing such distribution does not disrupt the operations of the institution or deface property and adheres to the advertising policy.
 - e. The right of assembly is granted within the institutional community. The institution retains the right to assure the safety of individuals, the protection of property, and the continuity of the educational process.
 - f. Orderly picketing and other forms of peaceful protest are permitted on institutional premises. Interference with entrances to institutional facilities, intentional interruption of classes, or damage to property exceeds permissible limits.
 - g. Orderly picketing and orderly demonstrations are permitted in public areas within institutional buildings subject to the requirements of non-interference.
 - h. Every student has the option to be interviewed on campus by an organization authorized to recruit at the institution.
- #### 4. Privacy
- a. Students have the same rights of privacy as any other citizens and surrender none of those rights by becoming members of the academic community.
 - b. Information about student views, beliefs, and political associations acquired by faculty and staff in the course of their work as instructors, advisors and counselors is confidential and is not to be disclosed to others unless under legal compulsion or with permission of the student.
 - c. The privacy and confidentiality of all student records shall be preserved. Official student academic records, supporting documents, and other student files shall be maintained only by full-time members of the institution's staff employed for that purpose and students employed by them who may have access in line of employment. Separate files shall be maintained for the following academic records, supporting documents and general educational records, records of disciplinary proceedings, medical and psychiatric records, and financial aid records.
 - d. No entry may be made on a student's academic record and no document may be placed in the student's file without actual notice to the student.
 - e. Access to one's own records and files is guaranteed every student subject only to reasonable regulations as to time, place and supervision.
 - (1) A student may challenge the accuracy or presence of any item by following the standard appeal process (see Appeal Procedures below).
 - (2) When a case is referred, a disciplinary file may be developed in the name of the charged student.
 - (3) The file will be voided if the charges against the student are not substantiated.
 - (4) The file will be retained for five years or until graduation if the charges are substantiated. Disciplinary records may be retained for longer periods of time or permanently if the sanction is suspension or expulsion from the University or Residence.

- (5) Any record, file, or incident report to which the student has access and an opportunity to respond, or records of previous hearings, may be taken into consideration by the decision maker in arriving at an appropriate decision.
- f. No record may be made in relation to any of the following matters except upon the express written request of the student religion, political or social views, and membership in any organization other than honorary and professional organizations directly related to the educational process.
- g. Agencies of the University which keep student records must make students aware of how and to whom those records may be divulged. No information in any student file may be released to anyone except with prior written consent of the student concerned or as stated below.
 - (1) Administrators may have access to student records for internal educational and administrative purposes.
 - (2) Members of the faculty may have access to academic records for internal educational and administrative purposes.
 - (3) Non-academic records shall be routinely available only to administrators and staff charged with their maintenance. Faculty and staff may have access to all records for statistical purposes.
 - (4) Directory information, as defined in Appendix F, may be released to any inquirer unless the student has specifically asked the Registrar to withhold that information.
 - (5) Unless under legal compulsion, all other information regarding students' records shall be denied to any person making an inquiry.
- h. Upon graduation or withdrawal from the institution, the records and files of former students shall continue to be subject to the provisions of this code.

D. Rights and Responsibilities of Campus Organizations

1. Organizations, groups, and NCAA teams may be established within the institution for any legal purpose. Their recognition will be in accordance with guidelines set forth by the Student Government Association and TU Athletic Department.
2. Membership in all institution-related organizations, within the limits of their facilities, shall be open to any fee-paying member of the institution community who is willing to subscribe to the stated aims and meet the stated obligations of the organization.
3. Individual members, as well as the organization, group, or team itself, can be charged with violations of the Code of Student Conduct, including those actions defined in the "Hazing, Pre-Initiation Activities" section of this document.
4. Institutional facilities shall be assigned to student organizations by the Office of Event and Conference Services. Every attempt should be made to provide alternate space for student activities, when the University Union facilities have been purchased by outside groups.
5. The authority to allocate institutional funds derived from student fees for use by organizations shall be delegated to a body in which student participation in the decision-making process is assured.
 - a. Approval of requests for funds is conditional upon submission of budgets to and approval by this body.
 - b. Financial accountability, in full accordance with University and state policies, regulations, procedures, and practices, is required for all allocated funds, including statement of income and expenses on a regular basis.
 - c. Otherwise, organizations shall have independent control over the expenditure of allocated funds.

6. The student press is to be free of censorship. The editors and managers shall not be arbitrarily suspended because of student, faculty, administration, alumni or community disapproval of editorial policy or content. Similar freedom is assured oral statements of views on institution-controlled and student-operated radio or television stations. This editorial freedom entails a corollary obligation under the canons of responsible journalism and applicable regulations of the Federal Communications Commission.
7. All student communications shall explicitly state that the opinions expressed are not necessarily those of the institution or its student body.

E. Rights of Students in Institutional Government

1. All constituents of the institutional community are free, individually and collectively, to express their views on issues of institutional policy and on matters of interest to the student body. Clearly-defined means shall be provided for student expression on all institutional policies affecting academic and student affairs.
2. The role of student government and its responsibilities shall be made explicit. There should be no review of student government actions except where review procedures are agreed upon in advance, or where actions of the government are either potentially illegal or present a clear danger to either individual or institutional rights.
3. On questions of educational policy, students are entitled to a participatory function. Students shall be designated as members of standing and special committees concerned with institutional policy affecting academic and student affairs, including those concerned with curriculum, discipline, admission, academic standards, University governance, and allocation of student funds.

F. Student Grievance Procedures

1. Any student or group may file a grievance against an administrative official or faculty member for violation of student rights as listed above.
2. The Judicial Affairs Office may make a preliminary investigation to determine whether the charges can be disposed of informally by mutual consent without the initiation of official proceedings.
3. If the charges cannot be disposed of informally, the student or group may file an appeal to the Screening Committee.

II. Code of Student Conduct

A. Rationale

The primary purpose for the institution of discipline in the University setting is to protect the campus community. Consistent with that purpose, reasonable efforts will also be made to foster the personal, educational, and social development of those students who are held accountable for violations of University regulations. However, the University must commit its policies and procedures first of all to protect and promote the academic enterprise. Consequently, it may be necessary to suspend or expel students who have been found responsible for violations of this *Code*, or who otherwise pose a substantial danger to the campus community.

B. Definitions

1. The terms "University" and "institution" mean Towson University (TU).
2. The term "student" includes all persons taking courses at the University, both full-time and part-time, pursuing undergraduate, graduate, professionals, certificate, or continuing studies. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the University are considered "students."
3. The term "faculty member" means any person hired by the University to conduct classroom activities.
4. The term "University official" includes any person employed by the University, performing assigned administrative, professional, or paraprofessional responsibilities

(including student Resident Assistants and Building Managers).

5. The term "member of the University community" includes any person who is a student, faculty member, University official, or any other person employed by the University.
6. The term "University premises" includes all land, buildings, facilities, and other property in the possession or of owned, used, or controlled by the University (including adjacent streets and sidewalks).
7. The term "organization" means any number of persons who have complied with formal requirements for University recognition (including SGA, Greek, and NCAA).
8. The term "group" means a number of persons who are associated with each other but who have not complied with University requirements for registration as an organization.
9. The term "Hearing Board" means the Hearing Officer and Judicial Aides authorized by the Director of Judicial Affairs to determine whether a student has violated the Code of Student Conduct.
10. The Director of Judicial Affairs is that person designated by the University President to be responsible for the administration of the Code of Student Conduct.
11. The term "policy" is defined as the written regulations of the University as found in, but not limited to, the Code of Student Conduct, the Residence Handbook, the Faculty Handbook, the University Catalog, the Towson State University Procedures for Alcohol Events, and the Event and Conference Services Guide for Student Organizations.
12. The term "Academic Dishonesty" is defined in the section of this policy entitled "Academic Dishonesty."

C. Scope

1. Generally, student or group conduct subject to institutional discipline is limited to on-campus actions which adversely affect the institutional community's pursuit of its educational objectives, or to off-campus actions by officially sponsored organizations, groups, or NCAA teams.
2. A student charged with a violation of federal, state, or local laws for off-campus behavior may be disciplined by the University when: the student is found guilty by a court of law; the student pleads guilty or **no contendere** to the charges; the student is given probation before judgement; or, the case is settled. Emergency action on an interim basis, affecting a student's access to campus, classes or residence, may be taken before court action is completed.
3. Some conduct clearly disturbs only the campus environment; when such behavior occurs, the University shall take internal action.
4. At all times, the University seeks to resolve conflict and protect its community at the most immediate level. Review and resolution of conflict without having to involve University judicial bodies is desirable. The University's Code of Student Conduct is most successful when formal procedures are not necessary.

D. Prohibited Conduct

The following misconduct is subject to disciplinary action:

- 1a. Intentionally furnishing false information to the institution.
- 1b. Forging, altering, or using institutional documents or instruments of identification with intent to defraud, or to otherwise benefit therefrom.
2. Intentional disruption or obstruction of teaching, research, administration or disciplinary proceedings, or other institutional activities.
3. Physical abuse of any person on institutional premises or at institutionally sponsored or supervised functions.
4. Placing a person in fear of imminent physical injury or danger, or inflicting mental or emotional distress upon a person through a course of conduct involving abuse or disparagement of that person's race, religion, sex, creed, sexual orientation, age, national origin or disability.

5. All forms of sexual assault including, but not limited to, rape, date/acquaintance rape, or other non-consensual verbal or physical conduct of a sexual nature.
6. Verbal abuse of any person on institutional premises or at institutionally sponsored or supervised functions.
7. Intentionally or recklessly damaging, destroying, defacing or tampering with University, public or personal property of another..
8. Failure to comply with proper instructions of institution officials acting in performance of their duties.
9. Violation of published institutional regulations and policies.
10. Violation of state, federal and local laws.
11. Unauthorized presence in institutional facilities.
12. The possession or use of illegal drugs when not in accordance with established policy.
 - a. The sale, distribution or manufacture of illegal drugs when not in accordance with established policy.
13. The possession or use of any firearms or instrument which may be construed as a weapon, without express permission of the University Police.
14. The possession of explosives, fireworks, or pyrotechnic paraphernalia on campus.
15. The possession or use of alcoholic beverages when not in accordance with established policy.
16. The unauthorized use of or entry into University computer systems.
17. Violation of the Residence Contract.
18. Violation of any disciplinary sanction.
19. Charging telephone or telecommunications charges to University telephones or extension numbers without authorization.
20. Theft, attempted theft, possession of stolen property, conspiracy to steal or misappropriation of another's property. This includes, but is not limited to, removing, possessing, concealing, altering, tampering or otherwise appropriating goods or property without authorization.

E. Penalties

The following penalties may be imposed upon students and all student organizations for violations of the Code of Student Conduct. With only one exception, federal regulation prohibits disclosing the outcome of judicial proceedings to anyone other than to the accused and to appropriate college personnel. The only exception relates to allegations of sexual assault. In those cases, the University will disclose to the victim of a sexual offense the outcome of any investigation by Campus Police or the Judicial Affairs Office pursuant to the victim's complaint against the alleged perpetrator of the sexual offense.

1. **CENSURE:** A written reprimand for violation of specified regulations, including a warning that continuation or repetition of prohibited conduct may be cause for additional disciplinary action.
2. **SOCIAL PROBATION:** Exclusion from participation in privileged or extracurricular institutional activities, including NCAA athletic events or practice, for a specified period of time. Additional restrictions or conditions may also be imposed. Violations of the terms of social probation, or any other violation of this Code during the period of probation, will normally result in a fine, suspension or expulsion from the University.
3. **SUSPENSION:** Suspension involves separation of the student from the University for a specified period of time and usually impairs a student's ability to pursue work at other colleges and universities. Normally, the student will also be barred from University premises during the period of suspension. Any student who is suspended shall not be entitled to any tuition or fee refund.
4. **EXPULSION:** Expulsion constitutes permanent separation of the student from the University. Any student who is expelled shall not be entitled to any tuition or fee refund.

5. **SUSPENSION OF GROUP:** Suspension shall consist of the withdrawal of an organization's recognition by the University, for a stated period of time, when an organization is found to have violated regulations. Suspension shall result in complete suspension of activities of the group during the stated period of time and may also include conditions for removal of suspension.
6. **ORGANIZATIONAL DISSOLUTION:** Organizational dissolution is a sanction imposed only upon student organizations guilty of serious and/or repeated violations of these standards. The sanctions involve permanent withdrawal of recognition by the University, denial of the use of University facilities or funds and official dissolution of the organization on the campus.
7. **RESTITUTION:** Restitution may be imposed on students whose violation has involved monetary loss or damage. Fines may be imposed in addition to restitution. Restitution becomes a financial obligation to the University and either full payment or an agreement for partial payment according to a schedule agreed to by the Director of Judicial Affairs is required before a student may register for classes again, or in the case of seniors, before the student may graduate.
8. **TERMINATION OF RESIDENCE CONTRACT:** Termination of a student's Residence contract may be imposed in order to safeguard the residence community if the seriousness of the violation warrants such action.
9. **FINES:** Fines of varying amounts may be imposed for certain violations, such as but not limited to falsification of a parking application, violation of social probation, and trespassing in the residence halls. Fines must be paid prior to the end of the current semester, otherwise a student's registration privileges will be withheld or prior registration canceled.
10. **OTHER SANCTIONS:** Other sanctions may be imposed instead of or in addition to those specified above. For example, students may be subject to restrictions upon or denials of University parking privileges for violations involving the use or registration of motor vehicles on campus; community service or research projects may be assigned; or the Residence contract may be placed on probation.
11. **DRUG PENALTIES:** (see Substance Abuse Policy below)

F. Violations of Law and Disciplinary Regulations

1. When there is evidence that a student has committed a crime on campus, disciplinary action at the University will normally proceed whether or not criminal charges involving the same incident have been dismissed or dropped. The student may then be subject to civil authorities as well as internal disciplinary action.
2. When there is evidence that the continued presence of a student on the University campus poses a substantial threat to himself or others or to the stability and continuance of normal University functions, the Vice President for Student Life or Director of Judicial Affairs may immediately suspend a student from any or all University activities, including the Residence program, for an interim period pending a hearing or medical evaluation. Such an interim suspension may become effective immediately without prior notice.
3. When a student is charged with a violation of one or more provisions of this code, a letter arranging a hearing will be sent to that student within a reasonable amount of time. The letter should state the following:
 - a. Specific violation.
 - b. Description of alleged incident.
 - c. Hearing Procedure.
 - d. Rights of Appeal.

G. Standards and Procedures of Due Process

1. Students subject to suspension or expulsion from the University or from the Residence program will be entitled to a judicial board hearing. With the exception of allegations of academic dishonesty (see the section below: Academic Dishonesty), students subject to any other sanction will be entitled to an informal disciplinary conference.
2. The purpose of a disciplinary proceeding is to provide a fair evaluation of an accused's responsibility for violating disciplinary regulations. Although formal rules of evidence need not be applied, procedures shall comport with standards of fundamental fairness. Harmless deviations from the prescribed procedures shall not necessarily invalidate a decision or proceeding unless significant prejudice to an accused student or the University may result.
3. Any person may refer students or student groups or organizations suspected of violating this Code to the Director of Judicial Affairs. Allegations of violations occurring within residence halls should be referred to the Director of Residence or a designee. Those referring cases are normally expected to serve as a witness and to present relevant evidence in disciplinary hearings or conferences. The Director of Judicial Affairs may appoint a member of the campus community to serve as an adviser to University witnesses. The role of the adviser shall be limited to consultation with the witnesses.
4. The Director of Judicial Affairs and the Director of Residence will review appropriate case referrals to determine whether the alleged misconduct might result in suspension or expulsion from the University or suspension from Residence. Students subject to those sanctions will be entitled to a hearing before the University Hearing Board. All other cases will be resolved after an informal disciplinary conference.
5. Suspensions and expulsions from the University and suspensions from the Residence Program will be made by the Vice President for Student Life or designee. All other sanctions will be determined by the Director of Judicial Affairs or designee. In all cases, the accused will be notified in writing of any sanctions to be imposed and of his or her rights of appeal.

H. Disciplinary Conference and University Hearing Procedure.

1. **Disciplinary Conference:** The conference procedure is designed to reduce unnecessary proceduralism and potential contentiousness in disciplinary proceedings. A disciplinary conference will normally consist of an informal, nonadversarial meeting between the accused and a University administrator, as designated by the Director of Judicial Affairs. Witnesses are not required to participate, unless cross-examination is necessary to resolve a dispositive factual issue. Documentary evidence and written statements can be relied upon, so long as the accused is given access to them in advance and allowed to respond to them at the conference. Accused are also allowed to call appropriate and relevant witnesses.

The following procedural protections are provided to respondents in disciplinary conferences:

- a. Written notice of the specific charges prior to the scheduled conference.
- b. Reasonable access to the case file prior to and during the conference.
- c. An opportunity to respond to the evidence and call appropriate and relevant witnesses.
2. **University Hearing:** The following procedural guidelines shall be observed for all hearings held by the University Hearing Board. The University Hearing Board will be composed of the hearing officer, who shall preside, and one or two students judicial aides. In the absence of the judicial aides, the hearing officer may hear and decide the case alone.

A case may not be heard if the hearing officer, or designated substitute, is not in attendance. The hearing officer shall be responsible for submitting the hearing panel's report to the Assistant Director of Judicial Affairs.

- a. The accused shall be given notice of the hearing date and the specific charges against him or her at least five calendar days in advance and shall be accorded reasonable access to the case file, which will be retained in the Office of Judicial Affairs (in some cases, the accused may choose not to wait five days for a hearing to take place).
- b. The hearing will be taped.
- c. The accused will be present for the hearing. If the accused fails to appear, this will be stated for the record and the hearing will continue.
- d. The accused may be accompanied by a friendly observer. This party may not be or act as legal counsel, except when concurrent criminal charges have been filed. Then counsel may not participate in the hearing, but may advise the accused party.
- e. The hearing officer shall exercise control over the proceedings to avoid needless consumption of time and to achieve orderly completion of the hearing. Any person, including the accused, who disrupts a hearing may be excluded by the hearing officer.
- f. Witnesses shall be asked to affirm that their testimony is truthful and may be subject to affirm that their testimony is truthful and may be subject to charges of intentionally providing false information to the University.
- g. Prospective witnesses, other than the complainant and the accused, will be excluded from the hearing during the testimony of other witnesses. In some cases, a University official may be present to offer relevant information regarding University policies and procedures. All parties and witnesses shall be excluded during hearing panel deliberations after the hearing.
- h. The burden of proof shall be upon the University, which must establish the responsibility of the accused by a preponderance of the evidence. "Preponderance of the evidence" is that evidence which, when fairly considered, produces the stronger impression, has the greater weight, and is more convincing as to its truth when weighed against the evidence in opposition thereto.
- i. Formal rules of evidence shall not be applicable in disciplinary proceedings conducted pursuant to this Code. The hearing officer shall give effect to the rules of confidentiality and privilege but shall otherwise admit all matters into evidence that reasonable persons would accept as having probative value. Repetitious or irrelevant evidence must, however, be excluded.
- j. Complainants and accused shall be accorded an opportunity to question those witnesses who testify for either party at the hearing.
- k. Affidavits shall only be admitted into evidence if signed by the affiant and witnessed by the Director of Judicial Affairs or designee.
- l. The Director of Judicial Affairs may appoint a special hearing panel member in complex cases. Special panel members may question all parties, participate in hearing panel deliberations, and offer advice to the hearing officer.
- m. The hearing will conclude with the accused making a final summation or statement.
- n. The hearing officer's report will be presented to the Assistant Director of Judicial Affairs within 48 hours. The student may view the hearing officer's written report by appointment.

- o. The accused will receive the decision in writing from the Vice President for Student Life or designee.
- p. The taped records will be kept on file in the Judicial Affairs Office for one semester following the hearing.

I. Judicial Hearings for Student Organizations, Groups, and NCAA Teams

1. Student organizations, groups, and NCAA teams (referred to here collectively as "group") may be charged with violations of the Towson University Code of Student Conduct.
2. When one or more members of a group is charged with a violation of the Code of Student Conduct, the University may charge the group as well. A student group and its officers may be held collectively and individually responsible when violations of this Code by those associated with the group have received the consent or encouragement of the group or of the group's leaders or officers.
3. A position of leadership in a student group entails responsibility. Student officers or leaders cannot knowingly permit, condone, or acquiesce in any violation of this Code by the group. This section of the Code is designed, in part, to hold a group and its officers accountable for any act of hazing. The express or implied "consent" of the victim or participant is not a defense.
4. The officers, leaders, or any identifiable spokesperson for a student group may be directed by the Vice President for Student Life or designee to take appropriate action designed to prevent or end violations of this Code by the group. Failure to make reasonable efforts to comply with the Vice President for Student Life's directive shall be considered a violation of this Code, both by the officers, leaders, or spokesperson for the group and by the group itself.
5. A judicial hearing for student groups will be conducted in a manner similar to the procedures listed above. Hearings shall be conducted with one spokesperson representing the group, usually the president. Any sanction listed in the Code of Student Conduct may be imposed on a group and its individual members.

J. Emergency Suspensions

1. In certain circumstances, the Vice President for Student Life, or designee, may impose a University or Residence suspension prior to the formal University hearing.
2. An emergency suspension may be imposed only:
 - a. To ensure the safety and well-being of members of the University community;
 - b. To ensure the student's own physical or emotional safety and well-being;
 - c. If the student poses a definite threat of disruption of or interference with the normal operations of the University.
3. Until a University hearing has been held, a student issued an emergency suspension shall be denied access, as determined appropriate by the Vice President for Student Life or designee, to:
 - a. The entire campus, including classes;
 - b. The residence halls and dining facilities;
 - c. All other activities or privileges for which the student might otherwise be eligible.
4. In these emergency cases, a University hearing will be scheduled as soon as is practicable.

K. Appeal Procedures

1. Any disciplinary determination resulting in expulsion or suspension from the University or suspension from Residence may be appealed to:
 - a. The Screening Committee, for possible referral to the Adjudication Committee.
 - b. The President of the University.
2. Any disciplinary determination resulting in any lesser sanction may be appealed to:
 - a. The Vice President for Student Life.

The basis for appeal of a disciplinary sanction must be one of the following:

- a. A flaw in the student's right of due process.
- b. Evident bias in the decision of the hearing board or the individual conducting an informal disciplinary conference.
- c. Inconsistent or overly severe sanction imposed.
- d. New evidence or insufficient consideration of all aspects of the situation.

Appeals must be submitted in writing to the Office of Judicial Affairs within five business days after receipt of the sanction letter. Failure to appeal within the allotted time will render the original decision final and conclusive.

Appeals must be submitted in writing to the Office of Judicial Affairs within five business days after receipt of the sanction letter. Failure to appeal within the allotted time will render the original decision final and conclusive.

Appeals shall be decided upon the record of the original proceedings and upon the written letters submitted by the parties. New hearings shall not be conducted on appeal.

The imposition of sanctions will be deferred during the appeal process unless, in the judgement of the vice President for Student Life, or designee, the continued presence of the student on the campus or in Residence poses a substantial threat to himself or herself or to others, or to the stability and continuance of normal University functions.

3. When a student has a dispute about a substantively academic matter (grade appeal) the appeal process is:
 - a. Instructor.
 - b. Department Chairperson.
 - c. School or College Dean.
 - d. Screening Committee, for possible referral to the Adjudication Committee.
 - e. President of the University.

In cases involving the awarding of grades, the Screening Committee should forward the appeal to the Adjudication Committee only if presented with sufficient evidence to indicate that a grade was not determined in accordance with the terms set forth by the instructor, normally as outlined in the course syllabus. Disputes regarding the grading of a particular piece of work shall be assigned to the appropriate chairperson who shall establish impartial means to conduct a review of the grade.

4. When a graduate student appeals a sanction imposed by a department for violation of established professionals standards, the appeal process is:
 - a. Department Chairperson.
 - b. School or College Dean.
 - c. Graduate Studies Committee.
 - d. Judicial Affairs Office, for referral to the
 - e. Screening Committee, for possible referral to the Adjudication Committee.
 - f. President of the University.

ACADEMIC DISHONESTY

Academic dishonesty in any form is unacceptable at Towson University. If a faculty member has evidence that a student's class-related behavior constitutes academic dishonesty, the faculty member may determine the course-related sanction to be imposed against the student, up to an including failure for the course. If an incident of academic dishonesty should occur, faculty are urged to inform the student(s) involved in writing of the penalty to be imposed, with a copy to the Office of Judicial Affairs. The route of appeal for a faculty-imposed sanction is:

- a. Department Chairperson.
- b. School or College Dean.
- c. Judicial Affairs, for referral to the
- d. Screening Committee, for possible referral to the Adjudication Committee.
- e. President of the University.

Definition. Academic dishonesty is an act of fraud, which may include misrepresentation, deceit, falsification, or trickery of any kind that is done by the student with the purpose, intent, or expectation of influencing a grade or other academic evaluation. Academic dishonesty also includes forgery and falsification of University academic documents, intentionally impeding or damaging the academic work of others, or assisting other students in acts of dishonesty. Common examples of academically dishonest behavior include, but are not limited to, the following:

1. Cheating. Intentionally using or attempting to use unauthorized materials, informal, or study aids in any academic exercise; copying from another student's examination; representing material prepared by another as one's own work; violating rules governing administration of examinations.
2. Fabrication. Intentional and unauthorized falsification or invention of any information or citation in an academic exercise.
3. Facilitating academic dishonesty. Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.
4. Plagiarism. Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise; failure to attribute direct quotation, paraphrase, or borrowed fact or information.

(Plagiarism is an often misunderstood kind of cheating. It is a form of theft in which another person's ideas or words is presented as one's own. In its most blatant form it involves copying material word for word from a book or article and failing to use quotation marks and proper documentation. Most plagiarism, however, is not as blatant. If one borrows phrases, even key words, from a written source, these must be quoted and documented with a footnote. In like manner, ideas or sequences of ideas which one borrows from a written source require documentation with either footnotes or textual references to the source. These latter forms of plagiarism often result more from carelessness than deliberate dishonesty; however, plagiarism in any form is a serious offense.)

Hazing, Pre-Initiation Policy

"Hazing," in any form, is against the law (Annotated Code of Maryland, Article 27, Section 268H) and is strictly prohibited at Towson University. When this policy is violated, action may be taken against all participants, including pledges.

"Hazing" is defined as any action taken or situation created, intentionally, whether on or off campus to produce mental or physical discomfort, embarrassment, harassment, or ridicule. Such activities and situations include but are not limited to paddling in any form; creation of excessive fatigue; physical and psychological shocks; quest, treasure hunts, scavenger hunts, road trips, or any other such activities carried on outside the confines of the house; wearing, publicly, apparel which is conspicuous and not normally in good taste; engaging in public stunts and buffoonery; morally degrading or humiliating games and activities; late work sessions which interfere with scholastic activities; and any other activities which are not consistent with the academic mission of the University.

Students may bring their concerns regarding hazing to the Office of Student Development.

Non-Discrimination Policy

In accordance with various civil rights laws and the University's Fair Practices Plan, discrimination against students and employees because of race, color, religion, national origin, sex, age, disability, sexual orientation, marital status, veteran status or political affiliation is prohibited at Towson University.

Sexual harassment (see following section) is considered a form of sex discrimination.

Procedure for Filing and Investigating Complaints of Discrimination in Education or Employment

Students and employees may bring concerns about discrimination or unfair practices in education or employment to the Office of Fair Practices for investigation (AD 303 8730-2361). After a student or employee has filed a formal complaint, full information from the complainant, from University records, and from University personnel involved in the incident will be gathered and a determination as to the merits of the complaint will be made.

The investigation will normally be completed within 30 days. If a key person is unavailable or if the complaint is complex, involves a grade dispute or other faculty matter, the investigation may take longer. Every effort will be made to complete the investigation within the semester in which it is filed, unless the complaint is filed within the last two weeks of a semester, in which case every effort will be made to complete the investigation by the beginning of the following semester.

Students are encouraged to bring incidents that they believe are discriminatory to the attention of University officials. The University cannot take appropriate action unless it is aware that a problem exists.

Sexual or Gender Harassment

Sexual harassment constitutes a serious threat to the free interaction and exchange necessary for educational and personal development, and it is entirely unacceptable on this campus. Definition: Sexual or gender harassment may range from offensive gender or sexual innuendos to coerced sexual relations. It can happen to both men and women, but women are more often victims.

Harassment occurs when a person in a position of control or influence uses authority and power to gain sexual advantages and threatens or punishes for refusal to comply. It includes suggestive remarks about clothing or physical attributes; leering or ogling; unnecessary touching; subtle or direct requests for sexual favors; implied or overt threats of consequences; or a hostile sexual environment. Students and employees may bring concerns about sexual harassment to the Office of Fair Practices for investigation.

AIDS Policy

In accordance with the University's Non-Discrimination Policy, no student, faculty, or staff member shall be denied access to the academic, social, or employment opportunities offered by Towson University solely because he/she has AIDS or is an HIV carrier. A University Committee (appointed by the President) will be appointed to evaluate individual cases of HIV infection and to make recommendations as questions of risk or cases of specific emergencies require. Educational programs will be implemented for the campus and the campus community to assist in preventing further spread of the virus.

POLICY ON SUBSTANCE ABUSE FOR FACULTY, STAFF, AND STUDENTS

University System of Maryland POLICY

The University System of Maryland, as an employer, strives to maintain a workplace free from the illegal use, possession, or distribution of controlled substances (as defined pursuant to Controlled Substances Act, 21 U.S.C. Sections 801, et. Seq.). Unlawful manufacture, distribution, dispensation, possession or use of controlled substances by University employees in the workplace is prohibited under University policy. In addition to any legal penalties under federal and state law, employees found to be in violation of this policy of the Maryland Governor's Executive Order on Substance Abuse, 01.01.1991.16, may be subject to corrective action under applicable University personnel policies. The University supports programs aimed at the prevention of substance abuse by University employees. Employees are encouraged to seek assistance for substance-dependency problems. Employee-assistance counseling and leaves of absence to attend rehabilitation programs are appropriate means for dealing with these problems.

Towson University POLICY

The use of controlled substances and the abuse of alcohol presents a serious threat to individual health and everyone's safety. Moreover the use of illegal drugs and the abuse of alcohol can result in less than complete reliability, stability, and good judgment which is inconsistent with the standards set for the faculty staff, and students of this University. Towson University, as an employer, strives to maintain a workplace free from the illegal use, distribution, or possession of controlled substances. Any person found to be participating in such activity will be subject to administrative disciplinary action, mandatory counseling and treatment and/or criminal proceedings.

The use, possession, and/or sale of illegal drugs, are considered violations of Towson University's Student Code of Conduct, the faculty contract, and the terms of employment of administrative, classified, and contractual staff. Faculty, students, and employees who use, possess, or sell illegal drugs shall be subject to discipline, including mandatory counseling, suspension, or dismissal from the University. The University will take disciplinary action based on reasonable available information; such action will be independent of any civil or criminal processes precipitated by the same incident and will follow the policies and procedures of the University and the University System of Maryland Board of Regents. In the workplace, use, possession, and/or sale of illegal drugs and controlled substance are also violations of state and federal laws for which individuals are subject to University disciplinary processes and/or arrest and criminal prosecution.

These serious workplace situations must be handled in ways which ensure the protection of the civil rights and handicapped rights of the accused, the treatment and rehabilitation of employees, and the notification of the necessary administrative and legal authorities.

Specific procedures for reporting drug use, penalties and appeals are part of the Student Handbook, Compass. Employee disciplinary measures and appeals for violations of this policy as well as other policies of the University are part of the Faculty Handbook, the Part-Time Faculty Handbook, and the Personnel Manual.

In addition to the University policy on substance abuse, all employees of the University including student employees are subject to the Maryland Governor's Executive Order 01.01.1991.16 on the Drug and Alcohol Free Workplace.

In accordance with federal legislation, Towson University's substance abuse policy will be distributed annually to all students and employees through campus or U.S. mail.

Acknowledgment of Policy

All employees of the University will certify to Human Resources or Payroll Office they have received a copy of this policy. Undergraduate, graduate, and non-degree undergraduate and graduate applications for admission to Towson University will contain a statement to be signed by each new student. This signature will acknowledge the drug and alcohol abuse policies of the University.

Education

In accordance with federal legislation, there will be an annual distribution, in writing, to each employee and student of:

1. The dangers of drug abuse in the workplace (to include student employees);
2. The institution's policy of maintaining a drug-free workplace and a drug-free campus;
3. Standards of conduct that clearly prohibit, at a minimum, the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees on University property or as part of any University activities;
4. A description of applicable legal sanctions under local, state, or federal law;
5. A description of health risks associated with the use of illicit drugs and the abuse of alcohol.
6. A description of available drug or alcohol counseling, treatment, or rehabilitation and/or reentry programs; and

7. A clear statement of the disciplinary sanctions that the University will impose on students and employees.

All supervisory faculty and staff will receive training on the drug awareness and treatment. This training program shall include existing as well as new supervisory personnel. Drug awareness training will be an integral part of the University's student orientation program.

Faculty and staff orientations will include programming especially designed to focus on the University's policy toward substance abuse.

Employee/Student Assistance Programs

Towson University's health and drug education programs will inform the entire University community of the physical and psychological effects of the non-medically supervised use of illegal drugs, alcohol and consciousness expanding drugs. The education program shall make employees aware of the consequences of prosecution under local, state and federal laws and the rules of governance for University imposed discipline.

The University recognizes the importance of individual rights and respect the privacy of employees and students. To this end, the University has an established counseling program for students and an Employee Assistance Program (A.) for faculty and staff. These programs have been designed to provide counseling and rehabilitative services. Employees and students are encouraged to contact the appropriate program in the event they have a substance abuse problem. In this way a student or employee can correct the problem before it jeopardizes a job, an education, family, or individual well being.

Employees or students who need help with a problem of drug abuse shall be encouraged to call the Counseling Center, the Health Center, Human Resources or the Division for Student Life. The resources of the Counseling Center shall be available for supervisors who wish consultation in handling employees who may have substance abuse problems. The call will be treated with confidentiality and respect. In addition, the University shall provide information about drugs on Capeline (830-COPE). Capeline telephone tapes will provide free and anonymous information on drugs as well as a listing of the Baltimore County Resources for Drug Abuse.

Voluntary participants in an assistance program will not jeopardize their continued employment or enrollment at the University provided that their job performance or behavior is consistent with established standards. However, voluntary participation in an assistance program will not prevent disciplinary action for violation of the policy described herein, where such violation has already occurred.

Procedures for Grievances and Appeal

Towson University strongly encourages the use of drug rehabilitation programs as the keystone to a drug-free environment. For each class of employee and student category, the formal rules of procedure remain intact. These include the student judicial procedures and criminal justice procedures. Following a conviction for violation of a drug offense in the workplace, disciplinary action can be imposed, up to and including termination or disenrollment. As a condition of continued employment or education, an employee or student may be required to participate in an approved drug abuse rehabilitation program.

Suspected Drug Use, Possession, or Sale

The use, possession or sale of illegal drugs are violations of state and federal laws for which all offenders are subject to arrest and criminal prosecution, as well as University administrative processes. These serious offenses must be handled in ways to ensure the guarding of evidence, the protection of civil rights of the accused, and notification of the proper authorities. To this end, specific procedures outlined in this policy are to be followed in any campus situation where substances are suspected to be illegal drugs.

Any individual, student or employee, directly associated with the University System of Maryland who uses or becomes involved with illegal drugs without proper medical supervision, shall be subject to discipline, including suspension or dismissal from the state university and college system, as may be appropriate.

Students, faculty and staff, in their routine activities, may observe suspected illegal drug activities. As a result, some staff members may become involved in the determination of disciplinary action that follows suspected use, possession or distribution of an illegal substance. Specific actions or responsibilities in regard to the suspicion of illegal substances have been outlined in other paragraphs of this policy.

The University reserves the right to conduct drug testing consistent with applicable federal and state laws.

Alcohol Use and Abuse

Towson University views with alarm the potential and real problems caused by alcohol abuse and alcoholism. The alcohol policy has been directed to students and employees engaged in the legal use of alcohol. The implicit as well as explicit focus of University policy centers on education for prudent drinking with moderation rather than intoxication.

Any person using alcoholic beverages at any time and at any place while on the campus of Towson University is responsible to civil and University authorities for compliance with state and county law.

It is against Maryland State law for anyone under the age of 21 to purchase, possess or consume alcoholic beverages.

It is unlawful for any minor to knowingly and willfully make any misrepresentation or false statement as to his/her age in order to obtain alcoholic beverages.

It is unlawful for any person to purchase alcoholic beverages for consumption by an individual who is known to be a minor.

It is unlawful for any person to possess open containers of any alcoholic beverage in a public place.

Policies concerning the possession and/or use of alcoholic beverages on campus and at special university/community events shall be the delegated responsibility of the Vice President for Administration and Finance.

Procedures for Reporting Substance Abuse

The following information shall provide the basic guidelines for the reporting of student or employee drug use, possession, sale or distribution. Other procedures to be followed have been specified in other sections of this policy.

Upon observing or receiving a report of suspected use, possession, or distribution of an illegal drug or the illegal use of alcohol, faculty and staff, and/or students shall proceed in the following manner.

Step One: Report suspicions of illegal drug or alcohol use or possession to the administrator of your area or the appropriate Vice President. Any faculty or staff member who observes the workplace use or possession of illegal drugs or alcohol must take appropriate action.

Students observing drug activity in the residence halls should notify a residence staff member/area coordinator or the Greek Advisor. These administrators will notify the appropriate authorities and take appropriate action.

Step Two: Use judicious thought and sound judgement when approaching individuals suspected of illegal drug or alcohol use, possession or distribution. It is preferable to leave drugs or alcohol in their original location until the authorities take action.

Step Three: The University administration will determine if state or federal laws may have been violated. University employees should not become involved in mediating any situation involving illegal drug or alcohol use.

Penalties for Substance Abuse

Penalties for Faculty and Staff

Towson University strongly encourages the use of drug rehabilitation programs as an effective measure in creating a drug-free workplace program. However, additional penalties may be implemented up to and including reprimand, suspension, mandatory counseling, mandatory participation in a drug rehabilitation program and/or dismissal. Appropriate University grievance procedures shall be used for each classification of employee.

Any individual who has been convicted of a controlled dangerous substance offense on or after January 1, 1991 shall be required to disclose that fact when applying for a license or a license renewal. The licensing authority may refuse to issue the license or impose appropriate conditions on the license, except for noncommercial driver's licenses. (Maryland Drug Enforcement Act of 1990)

Maryland law [Art. 27, 8, 286, and 287 Annotated Code of Maryland (1990)] states that persons who manufacture, distribute, dispense, or possess a controlled dangerous substance may be subject to imprisonment (length of time varies) and fines (\$15,000 and up).

Penalties for Students

In addition to the laws of the University System of Maryland, the State of Maryland and the nation, Towson University students shall be governed by rules referred to as the "Towson University Code of Conduct." Within these campus guidelines, students shall be subject to institutional discipline if they use, possess, distribute, or sell illegal drugs and illegally use or abuse alcohol. There may be various penalties applied to the student convicted of misuse of drugs and alcohol, depending on the situation. Individuals are encouraged to use voluntary rehabilitation programs and may be required to receive mandatory counseling and treatment. If a student is suspected by the University police to have violated state and/or federal laws with regard to illegal drugs or use of alcohol, the student will be subject to arrest and criminal prosecution.

All students suspected of substance abuse violations may be referred to the Director of Judicial Affairs. The student will be subject to a due process hearing in accordance with the institutional disciplinary guidelines. Disciplinary action at the University will normally proceed whether or not criminal charges related to the same incident have been processed and sustained. The University encourages voluntary counseling and may require participation in an approved treatment program.

Where there is evidence that the continued presence of a student on the University campus poses a substantial threat to self, others, or to the stability and continuance of normal University functions, the Vice President for Student Life, or a designee, may immediately suspend, on emergency basis, a student from any and all University activities (including residence programs and class attendance) pending a hearing or medical evaluation. A hearing will be scheduled in a timely fashion to adjudicate the case as swiftly as possible. During the period of emergency suspension, if the student needs access to the campus, arrangements can be made for the student to come to campus, on a limited basis, to attend counseling sessions and/or conduct business, usually with an escort. Such an interim suspension can become effective immediately without prior notice.

The following penalties described herein are in addition to those penalties listed in the section on general procedures and penalties for suspected drug use, possession, or sale. The specific penalty prescribed will usually depend on the nature of the alleged violation. Penalties may be administered following a judicial hearing where the suspected offender has been found to be guilty of specific charges. Possible penalties for student violations may include, but are not limited to, the following:

PENALTY ONE: The student user may be subject to referral to a mandatory drug treatment/education program, and/or the termination of the residence contract, denial of access to residence halls and social functions. If suspended, permission to return to school will be considered after the period of suspension and a verified report of attendance in a drug treatment/education program. Repeat offenders may be subject to more severe actions.

PENALTY TWO: The student distributor may be subject to referral to a mandatory drug treatment/education program and/or suspension from school for at least one year. Permission to return to school will be considered after the period of suspension and a verified report of attendance in a drug treatment/education program. Repeat offenders may be subject to more severe actions.

PENALTY THREE: The student conspirator, who brings together the seller and the buyer, may be subject to referral to a mandatory drug

treatment/education program and/or suspension for at least one semester. Permission to return to school after the period of suspension will be considered with verified attendance in a drug treatment/education program.

PENALTY FOUR: Greek Organizations, residing in on-campus Greek housing, who have been found to tolerate drug use, possession, and/or sale on the part of their members will be subject to a drug education program for the group and/or termination of the housing contract.

Maryland law [Art. 27, 8, 286, and 287 Annotated Code of Maryland (1990)] states that persons who manufacture, distribute, dispense, or possess a controlled dangerous substance may be subject to imprisonment (length of time varies) and fines (\$15,000 and up).

Recipients of Federal Grant/Contracts/Awards

Any faculty, staff member or student applying 1) for a federal grant/contract in which an in the workplace drug-free policy has been required, 2) for a "Pell Grant" or any other student/faculty grant/award or fellowship in which an in the workplace drug-free policy has been required, and 3) for a subcontract with the Department of Defense, will be required to comply in accordance with federal regulations.

1. Each individual must certify in writing to abide by the terms of the Towson University Drug-Free Workplace Policy.
2. Each individual must notify the Office of Research Administration or the Office of Financial Aid of any criminal drug conviction occurring in the workplace, no later than 5 days after conviction.

The University will be responsible for notifying any contracting or granting agency, within ten days of employee notification or otherwise receiving actual notice, of a conviction in (2) above.

If a grant or award is directly made to an individual, rather than the institution, the individual will certify in writing to the institution to not engage in the unlawful manufacture, distribution, dispensation, possession, or use of any controlled substance in the workplace or while conducting any work activity with the grant/contract and will abide by the terms of this Towson University Substance Abuse Policy.

Relationships with External Contractors

The University is committed to encourage all non-state entities, who do business with the University or otherwise receive funds from the University, to make a "good faith" effort to eliminate illegal drug abuse from their workplace. Therefore, in accordance with Executive Order 01.01.1991.16, the University shall take whatever action is necessary and appropriate to require a drug-free workplace, in accordance with applicable federal and state law, on each recipient of a State contract, grant, loan or other state funding instrument.

Biennial Review

The Towson University Substance Abuse Policy and Program will be reviewed every two years (a) to determine effectiveness and the need to implement change as necessary, and (b) to assure that sanctions developed and implemented were consistently enforced.

Responsibility

The President of Towson University will appoint a Campus Coordinator for all substance and alcohol abuse programs. This administrator will be responsible to the President for the implementation of this policy and the University's drug Free Workplace and Drug Free Campus plans. The President shall also hold responsible all faculty, staff, and students for supporting the Campus Coordinator. Especially those who occupy positions of leadership and supervision.

"Good Faith" Efforts

Towson University will at all times make a "good faith" effort to maintain a drug-free and substance abuse free workplace and campus through the implementation of this policy.

Appendix J

MISSION STATEMENT

I. INSTITUTIONAL IDENTITY

Towson University (TU), a metropolitan university of the Baltimore area, aspires to enhance its key role in the educational, economic, and cultural life of northern Maryland, to expand its partnerships with Baltimore County, Baltimore City, and surrounding counties, and to offer post-baccalaureate programs that serve societal needs.

Towson University is the largest university of the Baltimore metropolitan region. It is a residential institution that provides a broad range of undergraduate programs in both the traditional arts and sciences and in applied professional fields as well as selected master's level programs. The University is committed to a broad liberal arts and sciences based education for all undergraduate students so that they are familiar with the four central branches of knowledge -- fine arts, humanities, natural and mathematical sciences, and social and behavioral sciences.

As a constituent institution of the University System of Maryland, TU cooperates with other educational segments in Maryland, collaborates with other US institutions to provide citizens access to high quality educational services, and serves the educational, economic and cultural needs of Maryland. TU supports the goals of affirmative action.

Towson emphasizes excellence in teaching and continuous scholarly productivity in support of teaching, while also encouraging original research that advances knowledge, continual scholarly growth, and service to the community. Most faculty, including most full professors, teach lower division courses.

Current Carnegie Classification:
Comprehensive Colleges and Universities I

II. CONSTITUENCIES SERVED

Towson primarily serves commuting and residential students from the greater Baltimore area and from other parts of Maryland as well as students from adjoining mid-Atlantic and northeastern states. In addition to its large population of traditional-age students, the University facilitates the enrollment and education of non-traditional, adult students. Towson State's programs and services are designed to serve students who demonstrate a capacity for higher education in the range of the top third of Maryland high school graduates or by qualifying as a mature adult learner.

The student body is reflective of the racial and ethnic diversity of the society at large. The campus is fully accessible to and offers support services for students with disabilities.

Towson encourages individual faculty to contribute public service in the community and supports institutional outreach programs to government, non-profit groups, education, business, and the arts in its region. The University's strong history in teacher education enables it to expand its partnerships with county and Baltimore City school systems as well as with private schools; TU is a primary educator of teachers in the state. The University has several international exchange agreements with institutions throughout the world.

III. ACADEMIC PROGRAM EMPHASIS

Towson University offers a comprehensive range of baccalaureate programs in the liberal arts and sciences, communication, and selected programs in allied health, and places an emphasis on education, business, and the fine and performing arts, writing and women's studies. Selected master's programs, developed in response to community needs, focus on education, arts, and applied professional fields.

IV. COLLABORATIVE EFFORTS WITHIN THE SYSTEM

Towson University participates in several cooperative programs

including a dual law degree with the University of Baltimore, a dual engineering program with UMCP, the Certificate of Advanced Study in School Psychology with UMBC outside the USM, it is a partner in a cooperative reading program with Morgan State University. TU is also an active participant in the USM Downtown Baltimore Center.

V. SHORT TERMS GOALS AND PRIORITIES

Major priorities for the next five years include continued enhancement of selected programmatic areas in education, theatre, women's studies, and writing; enhancement in support of AACSB standards, including accreditation of accounting; implementation of an assessment program and improved advising and support services; introduction of multi-cultural, multi-ethnic studies and promotion of international education throughout the curriculum; and continued assimilation of new technologies and implementation of the "Information Resources Enhancement Plan."

TU plans to improve undergraduate education with an emphasis on liberal arts and sciences core requirements in accord with the recommendations of "Investing in People: The Maryland Plan for Post-secondary Education." In addition, its teacher educators are continuing long-standing partnerships with a broad range of education systems in Maryland.

Appendix K

CAREER ACTION PLAN

A satisfying and rewarding career doesn't happen overnight and is not necessarily the automatic outcome of a college education.

Career development occurs gradually, throughout a person's lifetime.

It is the product of decisions made, knowledge acquired, experiences gained, and actions taken.

The years associated with college are ones in which *great strides* in an individual's career development usually take place.

Cynthia Applin, Director, Career Center

Use your time here to shape the future you desire.	FRESHMEN Inquiry and Awareness	SOPHOMORES Assessment and Exploration	JUNIORS Gaining Career Experiences	SENIORS Job Search and Transition to World of Work
CHOOSE MAJOR & CAREER	<ul style="list-style-type: none"> *Meet with career counselor at CC to determine major and appropriate career paths. *Use <i>Discover</i>, a computerized self-assessment tool at CC to get occupations compatible with interests, abilities, experiences, and values. *Begin to build career network: seek faculty, staff, alumni, and peers to discuss major/career choices. 	<ul style="list-style-type: none"> *Use <i>TSU Catalog</i> for major requirements and options. Meet with faculty advisor about major/career interests. If unsure about major or unclear about GenEd requirements, see AA. *Meet again with career counselor at CC about major/career choices. *Register at CC for <i>Personal Life and Career Planning</i> course. 	<ul style="list-style-type: none"> *Build knowledge of major. Use catalog in use when you entered TSU. *Consider options for graduate or professional school. *Increase knowledge of career choice. Focus on career network. Set up informational interviews with TSU alumni and Internship employers. Obtain names at AR, CC/ICE, CC. 	<ul style="list-style-type: none"> *Identify and research potential employers. *Plan job search strategy. *Learn to market yourself effectively. Attend seminars sponsored by CC/ICE. *Complete application process for graduate or professional school if further education is part of career preparation.
SUPPLEMENT ACADEMIC STUDIES	<ul style="list-style-type: none"> *Visit SDO for on-campus groups matching interests. *Visit career libraries in CC/ICE, CC, CL, public libraries; browse WWW. *Attend career-related events: job fairs, seminars, open houses, etc.. *Use TS for help in achieving a higher GPA. 	<ul style="list-style-type: none"> *Attend events related to major/career interests. *Develop computer and communication skills. *Get on-line with a Tiger account through CANS. 	<ul style="list-style-type: none"> *Attend events sponsored by CC/ICE and CC. *Participate in campus leadership activities and career-related organizations. For information about groups, contact SDO. 	<ul style="list-style-type: none"> *Attend career-related and professional organizations to build network of contacts in chosen field. *Assume an active role in club or organization to build leadership and other transferrable skills.
DEVELOP PORTFOLIO	<ul style="list-style-type: none"> *Collect outstanding coursework, projects, accomplishments, writing samples, letters of recommendation, photographs of activities, evaluations, etc. 	<ul style="list-style-type: none"> *Continue collection of portfolio materials. Include work-in-progress to show ability to edit, revise, and improve. 	<ul style="list-style-type: none"> *Organize for presentation to employers. Solicit feedback on contents from advisor, department chair, and professionals in chosen field. 	<ul style="list-style-type: none"> *Submit completed portfolio to advisor, department chair, and other professionals for critique.
BUILD WORK EXPERIENCE & VALUES	<ul style="list-style-type: none"> *Identify life and work values with CC inventories. *Explore off-campus part-time and summer jobs at PTJO *Investigate on-campus student jobs at OHR. *Consider a Service-Learning experience for credit through CC/ICE. 	<ul style="list-style-type: none"> *Increase marketability: build transferrable skills through SLP, part-time and summer jobs. *Determine and test work values in part-time and summer jobs. *Explore requirements for major-related internship in junior year. 	<ul style="list-style-type: none"> *Apply for internship at CC/ICE. *Look for major-related part-time and summer jobs at PTJO. *Seek major-related on-campus student employment at OHR. 	<ul style="list-style-type: none"> *Consider a second internship to increase marketability. *Investigate and pursue job openings at CC/ICE, job fairs, on-campus interviews, in newspapers, and on WWW.
CREATE RÉSUMÉ	<ul style="list-style-type: none"> *Consider purchasing <i>Résumé Expert Plus</i> through CC/ICE. <i>Résumé Expert Plus</i> is professional, résumé-building, job-matching computer software. 	<ul style="list-style-type: none"> *Add new volunteer and work experiences. *Indicate new skills. *Purchase <i>Résumé Expert Plus</i> software at CC/ICE; become eligible for all CC/ICE services. 	<ul style="list-style-type: none"> *Use <i>Résumé Expert Plus</i> to update résumé: work, internship, field, volunteer experiences; transferrable skills; functional skills; campus activities; honors; professional memberships. 	<ul style="list-style-type: none"> *Participate in <i>Résumé Expert Plus</i>. Become eligible for employment services at CC/ICE: résumé referral, on-campus interviews, and credential service (for EDUC majors).

AA Academic Advising/410.830.2472

AR Alumni Relations/410.830.2234

CANS Computing & Network Services/
410.830.4083

CC Counseling Center/410.830.2512

CC/ICE Career Center/Internship-Coop Ed

CL Cook Library/410.830.2462

OHR TSU Office of Human Resources/
410.830.4158

PTJO Part-Time Jobs Office

SDO Student Development Office/
410.830.3307

SLP Service Learning Program

TS Tutorial Services/410.830.2291

WWW World Wide Web

CAREER CENTER

7800 York Rd. / 410.830.2233

PART-TIME JOBS OFFICE

7800 York Rd. / 410.830.2730

INTERNSHIP / COOP ED / SERVICE LEARNING

7800 York Road / 410.830.2932





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- AD Administration Building - A4
- AH Auburn House - E2
- BU Burdick Hall - B5
- CK Cook Library - D7
- DH Dowell Hall - C7
- FA Fine Arts Center - C4
- GS General Services - A5
- GE Glen Esk - C7
- HH Hawkins Hall - C6
- LH Lecture Hall - C6
- LT Lida Lee Tall - C6

Residence Buildings

- BK Berkshire Apartments - C8
- A Glen Complex (A Building) - C5
- B Glen Complex (B Building) - C5
- C Glen Complex (C Building) - D5
- D Glen Complex (D Building) - D5
- GD Glen Dining Hall C5
- NE Newell Hall - D7
- ND Newell Dining Hall - D7
- PR Prettyman Hall - D8
- RT Residence Tower - C7
- RI Richmond Hall - D7
- SC Scarborough Hall - D8
- TR Towson Run Apartments - A3
- WA Ward Hall - C8
- WE West Hall - C7

Visitor Parking

- VP Student Parking
- FP Faculty/Staff Parking



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